NASA SP-7039 (40)
January 1992

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BIBLIOGRAPHY
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NASA PATENT ABSTRACTS BIBLIOGRAPHY

(NASA-SP-7039(40)-Sect-2) NASA PATENT ABSTRACTS BIBLIOGRAPHY: A CONTINUING BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT 40) (NASA) 564 p

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A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

NASA STI PROGRAM
SCIENTIFIC & TECHNICAL INFORMATION

ACCESSION NUMBER RANGES

Bibliography Number	*STAR Accession Numbers*
NASA SP-7039(04) SEC 1	N69-20701 - N73-33931
NASA SP-7039(12) SEC 1	N74-10001 - N77-34042
NASA SP-7039(13) SEC 1	N78-10001 - N78-22018
NASA SP-7039(14) SEC 1	N78-22019 - N78-34034
NASA SP-7039(15) SEC 1	N79-10001 - N79-21993
NASA SP-7039(16) SEC 1	N79-21994 - N79-34158
NASA SP-7039(17) SEC 1	N80-10001 - N80-22254
NASA SP-7039(18) SEC 1	N80-22255 - N80-34339
NASA SP-7039(19) SEC 1	N81-10001 - N81-21997
NASA SP-7039(20) SEC 1	N81-21998 - N81-34139
NASA SP-7039(21) SEC 1	N82-10001 - N82-22140
NASA SP-7039(22) SEC 1	N82-22141 - N82-34341
NASA SP-7039(23) SEC 1	N83-10001 - N83-23266
NASA SP-7039(24) SEC 1	N83-23267 - N83-37053
NASA SP-7039(25) SEC 1	N84-10001 - N84-22526
NASA SP-7039(26) SEC 1	N84-22527 - N84-35284
NASA SP-7039(27) SEC 1	N85-10001 - N85-22341
NASA SP-7039(28) SEC 1	N85-22342 - N85-36162
NASA SP-7039(29) SEC 1	N86-10001 - N86-22536
NASA SP-7039(30) SEC 1	N86-22537 - N86-33262
NASA SP-7039(31) SEC 1	N87-10001 - N87-20170
NASA SP-7039(32) SEC 1	N87-20171 - N87-30248
NASA SP-7039(33) SEC 1	N88-10001 - N88-20253
NASA SP-7039(34) SEC 1	N88-20254 - N88-30583
NASA SP-7039(35) SEC 1	N89-10001 - N89-20085
NASA SP-7039(36) SEC 1	N89-20086 - N89-30155
NASA SP-7039(37) SEC 1	N90-10001 - N90-20043
NASA SP-7039(38) SEC 1	N90-20044 - N90-30170
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This bibliography was prepared by the NASA Center for AeroSpace Information operated for the National Aeronautics and Space Administration.

NASA SP-7039 (40)
January 1992

NASA PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY
SECTION 2 INDEXES

National Aeronautics and Space Administration
Scientific and Technical Information Program
Washington, DC 1992

This supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, price code A24.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 181 citations published in this issue of the Abstract Section cover the period July 1991 through December 1991. The Index Section references over 5100 citations covering the period May 1969 through December 1991.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

NASA Accession Number
NASA Case Number
Inventor's Name
Title of Invention
U.S. Patent Application Serial Number
U.S. Patent Number (for issued patents only)
U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED

ACCESSION NUMBER → **N91-32795*** National Aeronautics and Space Administration. ← CORPORATE SOURCE
Marshall Space Flight Center, Huntsville, AL.

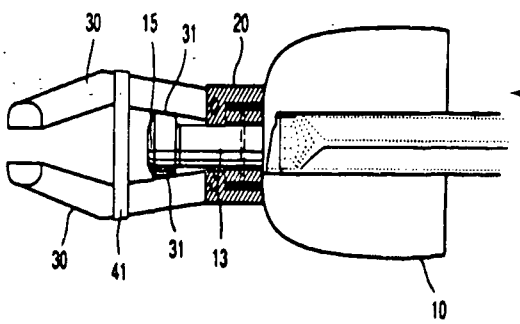
TITLE → **ROTATIONALLY ACTUATED PROSTHETIC HELPING HAND Patent**

INVENTORS → WILLIAM E. NORTON, inventor (to NASA), JEWELL G. BELCHER, JR., inventor (to NASA), JAMES R. CARDEN, inventor (to NASA), and THOMAS W. WEST, inventor (to NASA) 4 Jun. 1991 10 p Filed 12 Apr. 1990 Supersedes N90-27261 (28 - 21, p 3036)

NASA CASE NUMBER → (NASA-CASE-MFS-28426-1; US-PATENT-5,021,065;
US PATENT APPLICATIONS → US-PATENT-APPL-SN-508154; US-PATENT-CLASS-623-63;
SERIAL NUMBERS US-PATENT-CLASS-623-62; INT-PATENT-CLASS-A61F-2/58; INT-PATENT-CLASS-A61F-2/68) Avail: US Patent and ← AVAILABILITY SOURCE
Trademark Office CSCL 06K ← COSATI CODE

A prosthetic device has been developed for below-the-elbow amputees. The device consists of a cuff, a stem, a housing, two hook-like fingers, an elastic band for holding the fingers together, and a brace. The fingers are pivotally mounted on a housing that is secured to the amputee's upper arm with the brace. The stem, which also contains a cam, is rotationally mounted within the housing and is secured to the cuff, which fits over the amputee's stump. By rotating the cammed stem between the fingers with the lower arm, the amputee can open and close the fingers. ← ABSTRACT

Official Gazette of the U.S. Patent and Trademark Office



← KEY ILLUSTRATION

Subject Categories

(1969 - 1973)

01 Aerodynamics
Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft
Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems
Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences
Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology
Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry
Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications
Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers
Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment
Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuity; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics
Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support
Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics
Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics
Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography
Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes
Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers
Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic
Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic
Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics
Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology
Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation
Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering
Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General
Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear
Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma
Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State
Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants
Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems
Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation
Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences
Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles
Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics
Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion
Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General
Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS For related information see also *Astronautics.*

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS
Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery. For related information see also *34 Fluid Mechanics and Heat Transfer.*

03 AIR TRANSPORTATION AND SAFETY
Includes passenger and cargo air transport operations; and aircraft accidents. For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation.*

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION
Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control. For related information see also *17 Space Communications, Spacecraft Communications, Command and Tracking* and *32 Communications and Radar.*

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE
Includes aircraft simulation technology. For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics.* For land transportation vehicles see *85 Urban Technology and Transportation.*

06 AIRCRAFT INSTRUMENTATION
Includes cockpit and cabin display devices; and flight instruments. For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography.*

07 AIRCRAFT PROPULSION AND POWER
Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft. For related information see also *20 Spacecraft Propulsion and Power, 28 Propellants and Fuels,* and *44 Energy Production and Conversion.*

08 AIRCRAFT STABILITY AND CONTROL
Includes aircraft handling qualities; piloting; flight controls; and autopilots. For related information see also *05 Aircraft Design, Testing and Performance.*

09 RESEARCH AND SUPPORT FACILITIES (AIR)
Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands. For related information see also *14 Ground Support Systems and Facilities (Space).*

ASTRONAUTICS For related information see also *Aeronautics.*

12 ASTRONAUTICS (GENERAL)
For extraterrestrial exploration see *91 Lunar and Planetary Exploration.*

13 ASTRODYNAMICS
Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)
Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators. For related information see also *09 Research and Support Facilities (Air).*

15 LAUNCH VEHICLES AND SPACE VEHICLES
Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles. For related information see also *20 Spacecraft Propulsion and Power.*

16 SPACE TRANSPORTATION
Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques. For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance.* For space suits see *54 Man/System Technology and Life Support.*

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING
Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout. For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar.*

N.A.—no abstracts were assigned to this category for this issue.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE
Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls. For life support systems see *54 Man/System Technology and Life Support.* For related information see also *05 Aircraft Design, Testing and Performance, 39 Structural Mechanics,* and *16 Space Transportation.*

19 SPACECRAFT INSTRUMENTATION
For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography.*

20 SPACECRAFT PROPULSION AND POWER
Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources. For related information see also *07 Aircraft Propulsion and Power, 28 Propellants and Fuels, 44 Energy Production and Conversion,* and *15 Launch Vehicles and Space Vehicles.*

CHEMISTRY AND MATERIALS

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS
Includes physical, chemical, and mechanical properties of laminates and other composite materials. For ceramic materials see *27 Nonmetallic Materials.*

25 INORGANIC AND PHYSICAL CHEMISTRY
Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry. For related information see also *77 Thermodynamics and Statistical Physics.*

26 METALLIC MATERIALS
Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS
Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials. For composite materials see *24 Composite Materials.*

28 PROPELLANTS AND FUELS
Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels. For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power,* and *44 Energy Production and Conversion.*

29 MATERIALS PROCESSING
Includes space-based development of products and processes for commercial application. For biological materials see *55 Space Biology.*

ENGINEERING For related information see also *Physics.*

31 ENGINEERING (GENERAL)
Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR
Includes radar; land and global communications; communications theory; and optical communications. For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking.* For search and rescue see *03 Air Transportation and Safety,* and *16 Space Transportation.*

33 ELECTRONICS AND ELECTRICAL ENGINEERING
Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry. For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics.*

34 FLUID MECHANICS AND HEAT TRANSFER
Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling. For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics.*

35 INSTRUMENTATION AND PHOTOGRAPHY
Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography. For aerial photography see *43 Earth Resources and Remote Sensing.* For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation.*

36 LASERS AND MASERS
Includes parametric amplifiers. For related information see also *76 Solid-State Physics.*

37 MECHANICAL ENGINEERING
Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY
Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS
Includes structural element design and weight analysis; fatigue; and thermal stress. For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance.*

GEOSCIENCES For related information see also *Space Sciences.*

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING
Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography. For instrumentation see *35 Instrumentation and Photography.*

44 ENERGY PRODUCTION AND CONVERSION
Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower. For related information see also *07 Aircraft Propulsion and Power, 20 Spacecraft Propulsion and Power,* and *28 Propellants and Fuels.*

45 ENVIRONMENT POLLUTION
Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS
Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism. For space radiation see *93 Space Radiation.*

47 METEOROLOGY AND CLIMATOLOGY
Includes weather forecasting and modification.

48 OCEANOGRAPHY
Includes biological, dynamic, and physical oceanography; and marine resources. For related information see also *43 Earth Resources and Remote Sensing.*

LIFE SCIENCES

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE
Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES
Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT
Includes human engineering; biotechnology; and space suits and protective clothing. For related information see also *16 Space Transportation.*

55 SPACE BIOLOGY
Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE
Includes hardware for computer graphics, firmware, and data processing. For components see *33 Electronics and Electrical Engineering.*

61 COMPUTER PROGRAMMING AND SOFTWARE
Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS
Includes computer networks and special application computer systems.

63 CYBERNETICS
Includes feedback and control theory, artificial intelligence, robotics and expert systems. For related information see also *54 Man/System Technology and Life Support.*

64 NUMERICAL ANALYSIS
Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY
Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS
Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS
Includes topology and number theory.

PHYSICS For related information see also *Engineering.*

70 PHYSICS (GENERAL)
For precision time and time interval (PTTI) see *35 Instrumentation and Photography;* for geophysics, astrophysics or solar physics see *46 Geophysics, 90 Astrophysics,* or *92 Solar Physics.*

71 ACOUSTICS
Includes sound generation, transmission, and attenuation. For noise pollution see *45 Environment Pollution.*

72 ATOMIC AND MOLECULAR PHYSICS
Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS
Includes elementary and nuclear particles; and reactor theory. For space radiation see *93 Space Radiation.*

74 OPTICS
Includes light phenomena and optical devices. For lasers see *36 Lasers and Masers.*

75 PLASMA PHYSICS
Includes magnetohydrodynamics and plasma fusion. For ionospheric plasmas see *46 Geophysics.* For space plasmas see *90 Astrophysics.*

76 SOLID-STATE PHYSICS
Includes superconductivity. For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers.*

77 THERMODYNAMICS AND STATISTICAL PHYSICS
Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics. For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer.*

SOCIAL SCIENCES

80 SOCIAL SCIENCES (GENERAL)
Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT
Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE
Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography. For computer documentation see *61 Computer Programming and Software.*

83 ECONOMICS AND COST ANALYSIS
Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY
Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION
Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation. For related information see *03 Air Transportation and Safety, 16 Space Transportation,* and *44 Energy Production and Conversion.*

SPACE SCIENCES For related information see also *Geosciences.*

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY
Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS
Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust. For related information see also *75 Plasma Physics.*

91 LUNAR AND PLANETARY EXPLORATION
Includes planetology; and manned and unmanned flights. For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance.*

92 SOLAR PHYSICS
Includes solar activity, solar flares, solar radiation and sunspots. For related information see *93 Space Radiation.*

93 SPACE RADIATION
Includes cosmic radiation; and inner and outer earth's radiation belts. For biological effects of radiation see *52 Aerospace Medicine.* For theory see *73 Nuclear and High-Energy Physics.*

GENERAL

Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

99 GENERAL

Section 2 • Indexes

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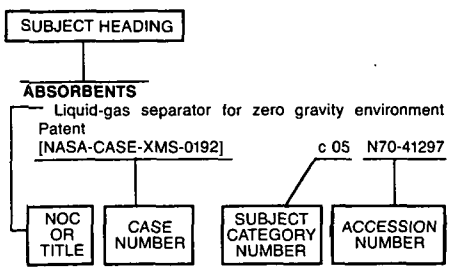
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[NASA-CASE-LAR-13981-1] c 37 N91-21539
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[NASA-CASE-LAR-13785-1] c 70 N91-21824
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[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
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[NASA-CASE-MSC-20821-1] c 17 N87-25348
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[NASA-CASE-XMF-03844-1] c 14 N71-26474
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[NASA-CASE-MSC-21748-1] c 37 N91-25415
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[NASA-CASE-NPO-10567] c 08 N71-24633
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[NASA-CASE-GSC-10065-1] c 10 N71-27136
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[NASA-CASE-MFS-21109-1] c 05 N73-27941
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[NASA-CASE-MSC-13932-1] c 62 N74-14920
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[NASA-CASE-LAR-12196-1] c 33 N81-26358
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Adaptive reference voltage generator for firing angle *control of line-commutated inverters*
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
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[NASA-CASE-MSC-21170-1] c 17 N91-14371
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[NASA-CASE-XMF-01892] c 10 N71-22986
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[NASA-CASE-GSC-12528-1] c 74 N81-24900
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[NASA-CASE-XGS-00689] c 08 N70-34787
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[NASA-CASE-XNP-03263] c 09 N71-18843
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[NASA-CASE-LAR-12642-1] c 27 N81-29229
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[NASA-CASE-LEW-15027-1] c 27 N91-13566
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[NASA-CASE-LAR-10173-1] c 27 N71-14090
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[NASA-CASE-NPO-13877-1] c 45 N82-11634
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
Process for lowering the dielectric constant of polyimides using diamic acid additives
[NASA-CASE-LAR-13902-1] c 27 N90-23546
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[NASA-CASE-NPO-15295-1] c 60 N85-21992
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[NASA-CASE-XGS-05533] c 04 N69-27487
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
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[NASA-CASE-MFS-20299] c 15 N72-11392
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[NASA-CASE-LEW-23169-2] c 26 N81-16209
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[NASA-CASE-LEW-13169-2] c 26 N82-30371
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[NASA-CASE-LAR-13225-1] c 24 N90-25197
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[NASA-CASE-MFS-13686] c 15 N71-18132
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[NASA-CASE-XNP-00826] c 03 N71-20895
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
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[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Thermal barrier coating system having improved *adhesion*
[NASA-CASE-LEW-1335901] c 27 N83-31855
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454
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[NASA-CASE-LAR-11397-1] c 27 N75-29263
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[NASA-CASE-LAR-12181-1] c 27 N78-17205
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[NASA-CASE-LAR-12099-1] c 27 N80-16158
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424

ADIABATIC CONDITIONS
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493

ADJUSTING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002

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[NASA-CASE-MSC-21584-1] c 25 N91-24362

AERIAL RUDDERS
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

AERODYNAMIC BRAKES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
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[NASA-CASE-XAC-02058] c 02 N71-16087
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[NASA-CASE-MSC-12433] c 31 N73-14854
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

AERODYNAMIC CONFIGURATIONS
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

AERODYNAMIC DRAG
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094

AERODYNAMIC HEATING
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947

AERODYNAMIC INTERFERENCE
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

AERODYNAMIC LOADS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

AERODYNAMIC NOISE
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

AERODYNAMIC STABILITY
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
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[NASA-CASE-LAR-13134-2] c 07 N87-16828
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[NASA-CASE-LAR-13983-1] c 05 N90-23390

AERODYNAMIC STALLING
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

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[NASA-CASE-LAR-13563-1] c 34 N91-23410

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Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504

AERONAUTICAL ENGINEERING
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

AEROSOLS
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

AEROSPACE ENGINEERING
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
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[NASA-CASE-MSC-16973-1] c 37 N81-14317

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[NASA-CASE-XLE-01902] c 28 N71-10574
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
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[NASA-CASE-MSC-20797-1] c 37 N87-23981
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[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
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[NASA-CASE-LEW-14297-1] c 35 N89-12048
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[NASA-CASE-MSC-21059-2] c 35 N91-15511

AEROSPACE MEDICINE
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

AEROSPACE PLANES
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

AEROSPACE SYSTEMS
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

AEROSPACE VEHICLES
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

AFTERBODIES
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

AFTERBURNING
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374

AGGLOMERATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

AGING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

AGRICULTURE
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

AILERONS
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
AIR
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
AIR BREATHING ENGINES
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
AIR CONDITIONING
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
AIR CONDITIONING EQUIPMENT
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Heat tube device
[NASA-CASE-KSC-11395-1-CU] c 34 N91-21473
AIR COOLING
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
AIR FILTERS
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
AIR FLOW
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
AIR INTAKES
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
AIR LOCKS
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
AIR NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
AIR POLLUTION
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
AIR PURIFICATION
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
AIR QUALITY
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561
AIR SAMPLING
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
AIR START
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
AIR TRAFFIC CONTROL
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
AIR TRANSPORTATION
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
AIRBORNE EQUIPMENT
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113
AIRBORNE/SPACEBORNE COMPUTERS
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
AIRCRAFT
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
AIRCRAFT ACCIDENTS
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
AIRCRAFT ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
AIRCRAFT COMPARTMENTS
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
AIRCRAFT CONFIGURATIONS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
AIRCRAFT CONSTRUCTION MATERIALS
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
AIRCRAFT CONTROL
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140
AIRCRAFT DESIGN
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078

AIRCRAFT DETECTION
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

AIRCRAFT ENGINES
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

AIRCRAFT EQUIPMENT
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

AIRCRAFT FUEL SYSTEMS
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467

AIRCRAFT GUIDANCE
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

AIRCRAFT HAZARDS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

AIRCRAFT HYDRAULIC SYSTEMS
Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

AIRCRAFT INSTRUMENTS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

AIRCRAFT LANDING
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

AIRCRAFT LAUNCHING DEVICES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MANEUVERS
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

AIRCRAFT PERFORMANCE
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

AIRCRAFT PILOTS
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT POWER SUPPLIES
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

AIRCRAFT SAFETY
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

AIRCRAFT SPIN
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

AIRCRAFT STABILITY
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

AIRCRAFT STRUCTURES
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

AIRCRAFT TIRES
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

AIRCRAFT WAKES
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

AIRFOIL PROFILES
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

AIRFOILS
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

AIRFRAMES
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

AIRSPEED
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

ALBUMINS
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

ALCOHOLS
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALGORITHMS
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Multistage estimation of received carrier signal *parameters under very high dynamic conditions of the* receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

ALIGNMENT
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

ALKALI HALIDES
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALI METALS
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALINE BATTERIES
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALKALINE EARTH OXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

ALKYL COMPOUNDS
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

ALKYNES
High *performance channel injection sealant invention* abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

ALLOYS
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

ALPHA PARTICLES
Method and means for helium/hydrogen ratio measurement by alpha scattering
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ALPHANUMERIC CHARACTERS
X-Y alphanumeric character generator for oscilloscopes
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ALTERNATING CURRENT
Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Inverter with means for base current shaping for *sweeping charge carriers from base region Patent*
[NASA-CASE-XGS-06226] c 10 N71-25950
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

ALTIMETERS
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

ALTITUDE
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

ALTITUDE CONTROL
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

ALUMINUM
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

ALUMINUM ALLOYS
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

ALUMINUM COATINGS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALUMINUM OXIDES
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

ALUMINUM SILICATES
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMBIGUITY
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

AMIDES
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

AMINES
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals *and amine compounds Patent*
[NASA-CASE-XMF-08652] c 06 N71-11243
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

AMINO ACIDS
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

AMPLIFICATION
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

AMPLITUDE DISTRIBUTION ANALYSIS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

AMPLITUDE MODULATION
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

AMPLITUDES
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

AMPOULES
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896

ANALGESIA
Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

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[NASA-CASE-XMF-01097] c 10 N71-16058
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

ANALOG COMPUTERS
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

ANALOG DATA
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396

ANALOG SIMULATION
Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

ANALOG TO DIGITAL CONVERTERS
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

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Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888

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Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

ANCHORS (FASTENERS)
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

ANECHOIC CHAMBERS
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

ANEMOMETERS
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

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[NASA-CASE-ARC-10985-1] c 52 N79-10724

ANGLE OF ATTACK
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

ANGLES (GEOMETRY)
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

ANGULAR ACCELERATION
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

ANGULAR CORRELATION
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490

ANGULAR DISTRIBUTION
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

ANGULAR MOMENTUM
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379

ANGULAR RESOLUTION
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387

ANGULAR VELOCITY
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695

ANHYDRIDES
Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphathalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

ANILINE
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

ANIMALS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ANIONS
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

ANISOTROPIC MEDIA
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

ANISOTROPY
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

ANNEALING
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

ANNULAR NOZZLES
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ANNULAR PLATES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

ANNULI
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

ANODES
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330

Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

ANODIC COATINGS
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ANOMALIES
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

ANTENNA ARRAYS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

ANTENNA COMPONENTS
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

ANTENNA COUPLERS
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ANTENNA DESIGN
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Unfurlable structure including coiled strips thrust *launched upon tension release* Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Dish antenna having switchable beamwidth --- with *truncated concave ellipsoid subreflector*
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
Ground plane interference elimination by passive *element*
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

ANTENNA FEEDS
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

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Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
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[NASA-CASE-GSC-10299-1] c 09 N71-24804
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
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[NASA-CASE-MSC-16800-1] c 32 N81-14187
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

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Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

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[NASA-CASE-GSC-12046-1] c 52 N79-14750

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[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

ANTIFRICTION BEARINGS
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Production of hollow components for *rolling element* bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

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Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

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Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

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Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

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Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363

APERTURES
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

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Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
APOLLO SPACECRAFT
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
APPLICATIONS OF MATHEMATICS
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
APPROACH
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
AQUATIC PLANTS
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
AQUEOUS SOLUTIONS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
ARC DISCHARGES
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
ARC HEATING
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
ARC JET ENGINES
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
ARC LAMPS
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
ARC SPRAYING
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
ARC WELDING
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
ARCHITECTURE
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
ARCHITECTURE (COMPUTERS)
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
ARGON
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
ARITHMETIC
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
ARM (ANATOMY)
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
ARMATURES
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
AROMATIC COMPOUNDS
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
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Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
ARTERIES
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
ARTIFICIAL CLOUDS
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
ARTIFICIAL GRAVITY
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
ARTIFICIAL INTELLIGENCE
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
ARTIFICIAL SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
ASBESTOS
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
ASHES
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
ASPECT RATIO
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
ASPHALT
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
ASSAYING
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
ASSEMBLIES
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
ASSEMBLING
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

ASSEMBLY
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
ASSOCIATIVE PROCESSING (COMPUTERS)
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
ASTRONAUT LOCOMOTION
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
ASTRONAUT MANEUVERING EQUIPMENT
Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
ASTRONAUT PERFORMANCE
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
ASTRONAUT TRAINING
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
ASTRONAUTS
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
ASTRONAVIGATION
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
ASTRONOMICAL PHOTOGRAPHY
Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
ASYMMETRY
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
ATMOSPHERIC CHEMISTRY
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487
ATMOSPHERIC COMPOSITION
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
ATMOSPHERIC DENSITY
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
ATMOSPHERIC ENTRY
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
Means for measuring the electron density gradients of *the plasma sheath formed around a space vehicle* Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
ATMOSPHERIC ENTRY SIMULATION
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
ATMOSPHERIC MOISTURE
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
ATMOSPHERIC PHYSICS
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
ATMOSPHERIC PRESSURE
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
ATMOSPHERIC RADIATION
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
ATMOSPHERIC REFRACTION
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
ATMOSPHERIC SCATTERING
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
ATMOSPHERIC SOUNDING
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
ATMOSPHERIC TEMPERATURE
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
ATMOSPHERIC TURBULENCE
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
ATOMIC BEAMS
Variable energy, high flux, ground-state atomic oxygen *source*
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
ATOMIC EXCITATIONS
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
ATOMIC STRUCTURE
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
ATOMIZERS
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Constant-output atomizer --- inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
ATS
Doppler frequency spread correction device for multiplex *transmissions*
[NASA-CASE-XGS-02749] c 07 N69-39978
ATTACHMENT
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
ATTENUATORS
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
ATTITUDE (INCLINATION)
Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
ATTITUDE CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Method and apparatus for determining satellite orientation utilizing spatial *energy sources* Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Propulsion apparatus and method using boil-off gas from *a cryogenic liquid*
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380
ATTITUDE GYROS
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
ATTITUDE INDICATORS
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

ATTITUDE STABILITY

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

AUDIO EQUIPMENT

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDIO FREQUENCIES

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

AUDIO SIGNALS

Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

AUDITORY DEFECTS

Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

AUDITORY PERCEPTION

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUDITORY SIGNALS

Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

AUDITORY STIMULI

Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUGER EFFECT

Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITIC STAINLESS STEELS

Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION

Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

AUTOMATIC CONTROL

Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

AUTOMATIC CONTROL VALVES

Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL

Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC TEST EQUIPMENT

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES

Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION

Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

AUTONOMY

Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724

AUXILIARY POWER SOURCES

Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

AXES (REFERENCE LINES)

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

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[NASA-CASE-MSC-15626-1] c 14 N72-25411
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[NASA-CASE-MSC-18723-1] c 35 N83-21312
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Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
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[NASA-CASE-LAR-13019-1] c 07 N85-35194
AXIAL FLOW PUMPS
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[NASA-CASE-MFS-28058-1] c 37 N87-21332
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[NASA-CASE-XLE-00170] c 15 N70-36412
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
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[NASA-CASE-XMF-01371] c 15 N70-41829
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[NASA-CASE-MFS-23299-1] c 39 N77-28511
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
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Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
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Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
AZINES
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
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[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
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[NASA-CASE-LEW-12053-2] c 27 N79-28307
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[NASA-CASE-ARC-11241-1] c 25 N81-14016
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BACK INJURIES
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
BACKGROUND NOISE
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
BACKGROUND RADIATION
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
BACKSCATTERING
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
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[NASA-CASE-LAR-11155-1] c 35 N74-15091
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[NASA-CASE-XMF-00722] c 15 N70-40204
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[NASA-CASE-MFS-21462-1] c 33 N74-14935
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
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[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
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Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
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[NASA-CASE-GSC-11917-2] c 51 N76-29891
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[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
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[NASA-CASE-GSC-11533-1] c 14 N73-13435
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
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Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
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[NASA-CASE-KSC-10639] c 15 N73-26472
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
BAGS
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
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Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
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Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
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[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
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[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
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Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
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[NASA-CASE-LAR-10348-1] c 11 N73-12264
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
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Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
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[NASA-CASE-LEW-11087-1] c 15 N73-30458
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[NASA-CASE-LEW-11087-3] c 37 N74-21064
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[NASA-CASE-LEW-11925-1] c 37 N75-31446
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[NASA-CASE-MFS-23447-1] c 37 N79-11404
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[NASA-CASE-MFS-25833-1] c 35 N86-32698
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[NASA-CASE-MFS-28345-1] c 37 N91-14608
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
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[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
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Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
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Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
BALLISTICS
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[NASA-CASE-ARC-10714-1] c 27 N76-15310
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Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
BALLOON-BORNE INSTRUMENTS
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
BALLOONS
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
BALLS
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
BANDPASS FILTERS
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

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Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

BARIUM
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

BARIUM COMPOUNDS
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

BARIUM FLUORIDES
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

BARIUM ION CLOUDS
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360

BARIUM TITANATES
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

BARRIER LAYERS
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

BARRIERS
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

BARS
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

BASES (CHEMICAL)
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

BATHING
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[NASA-CASE-MSC-21589-1] c 54 N91-16566

BATHS
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[NASA-CASE-MFS-28406-1] c 37 N91-13729

BATTERY CHARGERS
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BAYS (STRUCTURAL UNITS)
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

BEADS
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BEAM LEADS
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
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Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

BEAM SWITCHING
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES
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[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

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[NASA-CASE-ERC-10020] c 16 N71-26154
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
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[NASA-CASE-NPO-14813-1] c 74 N82-24072
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
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[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

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Joint for deployable structures
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[NASA-CASE-MFS-28185-1] c 37 N88-23979
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

BEARING
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

BEARING (DIRECTION)
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

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Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581

BEDS (PROCESS ENGINEERING)
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

BEER LAW
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999

BELTS
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BEND TESTS
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

BENDING
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

BENDING DIAGRAMS
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

BENDING VIBRATION
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

BERYLLIUM ALLOYS
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIDIRECTIONAL REFLECTANCE
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

BIMETALS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

BINARY DATA
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

BINARY DIGITS
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

BINARY FLUIDS
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

BINARY TO DECIMAL CONVERTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691

BINDERS (MATERIALS)
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

BINOCULARS
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

BIOASSAY
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

BIOCHEMISTRY
A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531

BIODEGRADATION
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

BIODYNAMICS
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

BIOELECTRIC POTENTIAL
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769

BIOELECTRICITY
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

BIOENGINEERING
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

BIOINSTRUMENTATION
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772

Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

BIOLOGICAL EFFECTS
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700

BIOLUMINESCENCE
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

BIOMEDICAL DATA
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771

BIOMETRICS
Pressed disc type sensing electrodes with ion- screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

BIOPROCESSING
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

BIOREACTORS
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667

BIOTECHNOLOGY
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
Rotating bio-reactor cell culture apparatus
[NASA-CASE-MSC-21293-1] c 51 N91-21700

BIOTELEMETRY
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

BIPOLAR TRANSISTORS
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

BIREFRINGENCE
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N91-23472

BIREFRINGENT FILTERS
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N91-23472

BISMALEIMIDE
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

BISMUTH
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT ERROR RATE
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

BIT SYNCHRONIZATION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

BLADE TIPS
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

BLADES
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOCK COPOLYMERS
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

BLOOD
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

BLOOD FLOW
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY TEMPERATURE
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
BODY VOLUME (BIOLOGY)
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578
BODY-WING CONFIGURATIONS
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
BOILERS
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
BOILING
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
BOLOMETERS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
BOLTED JOINTS
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
BOLTS
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
BONDING
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
BONES
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
BOOLEAN ALGEBRA
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
BOOMS (EQUIPMENT)
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
BOOSTER RECOVERY
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
BOOSTER ROCKET ENGINES
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
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[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
BOOTS (FOOTWEAR)
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
BOREHOLES
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
BORIDES
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
BORING MACHINES
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
BORON
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
BORON CARBIDES
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
BORON CHLORIDES
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
BORON COMPOUNDS
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
BORON FLUORIDES
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
BOROSILICATE GLASS
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546
BOULES
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
BOUNDARY CONDITIONS
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
BOUNDARY LAYER CONTROL
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
BOUNDARY LAYER FLOW
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
BOUNDARY LAYER SEPARATION
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
BOUNDARY LAYER TRANSITION
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
BOUNDARY LAYERS
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
BOXES (CONTAINERS)
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
BRACKETS
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
BRAGG CELLS
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
BRAILLE
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
BRAKES
Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
BRAKES (FOR ARRESTING MOTION)
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976

Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

BRAKING
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579

BRAZING
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

BREATHING APPARATUS
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

BRICKS
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

BRIDGMAN METHOD
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

BRIGHTNESS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

BRIGHTNESS DISCRIMINATION
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

BRITTLENESS
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

BROADBAND
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595

BROADBAND AMPLIFIERS
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

BROADCASTING
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598

BROMINATION
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

BROMINE
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641

BROMINE COMPOUNDS
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

BRONZES
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

BRUSHES
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

BRUSHES (ELECTRICAL CONTACTS)
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

BUBBLES
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

BUCKLING
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

BUFFER STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BUFFERS (CHEMISTRY)
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454

BULBS
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415

BUOYANCY
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

BURNOUT
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

BURNS (INJURIES)
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

BUS CONDUCTORS
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

BUSHINGS
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221

BUTANES
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

BUTYRIC ACID
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

C

CABLE FORCE RECORDERS
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

CABLES
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742

CABLES (ROPES)
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
CADMIUM COMPOUNDS
Pretreatment of lubricated surfaces with sputtered *cadmium oxide*
[NASA-CASE-LEW-14474-1] c 27 N91-28423
CADMIUM SULFIDES
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
CALCIUM
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
CALCIUM FLUORIDES
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
CALCIUM OXIDES
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
CALCIUM PHOSPHATES
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
CALCULATORS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
CALCULI
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
CALIBRATING
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Method and apparatus for self-calibration and phasing *of array antenna*
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
CALORIMETERS
Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
CAMERA SHUTTERS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
CAMERAS
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Stereoscopic camera and viewing systems with *undistorted depth presentation and reduced or eliminated* erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N91-24878
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Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
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Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
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Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
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[NASA-CASE-NPO-14549-2] c 52 N82-33996
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One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
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Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
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[NASA-CASE-KSC-11042-1] c 09 N82-29330
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[NASA-CASE-FRC-11065-1] c 05 N83-19737
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[NASA-CASE-XLA-01446] c 15 N71-21528
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[NASA-CASE-NPO-10812] c 15 N73-13464
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[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
CANTILEVER BEAMS
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
CANTILEVER MEMBERS
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[NASA-CASE-NPO-10883] c 31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
CAPACITANCE
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
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Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
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Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

CAPILLARY FLOW
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
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[NASA-CASE-XNP-03972] c 15 N71-23048
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

CAPILLARY TUBES
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541

CARBAZOLES
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

CARBIDES
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

CARBOHYDRATES
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

CARBON
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-26205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946

CARBON ARCS
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

CARBON COMPOUNDS
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

CARBON DIOXIDE
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

CARBON DIOXIDE LASERS
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO2 laser with NH2D
[NASA-CASE-NPO-11945-1] c 36 N76-18427

CARBON DIOXIDE REMOVAL
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

CARBON FIBER REINFORCED PLASTICS
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260

CARBON FIBERS
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

CARBON MONOXIDE
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

CARBON-CARBON COMPOSITES
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114

CARBONACEOUS MATERIALS
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CARBONATES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

CARBONIZATION
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789

CARBONYL COMPOUNDS
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561

CARBORANE
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

CARBOXYL GROUP
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929

CARBOXYLIC ACIDS
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30096
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

CARCINOGENS
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

CARDIAC VENTRICLES
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

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Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760

CARDIOLOGY
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

CARDIOTACHOMETERS
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

CARDIOVASCULAR SYSTEM
G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

CARRIER FREQUENCIES
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

CARRIER LIFETIME
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

CARRIER WAVES
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

CARRIERS
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

CARTESIAN COORDINATES
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462

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Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647

Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

CASE BONDED PROPELLANTS
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

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Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

CASSEGRAIN ANTENNAS
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

CASSEGRAIN OPTICS
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

CASTING
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559

CASTINGS
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

CATALYSIS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

CATALYSTS
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-23517
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270

CATALYTIC ACTIVITY
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

CATCHERS
Load limiting, energy absorbing, lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N91-24216

CATHETERIZATION
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CATHODE RAY TUBES
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

CATHOLYTES
Organic cathode for a secondary battery
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Alkaline electrochemical cells and method of making
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Aqueous alkali metal hydroxide insoluble cellulose ether membrane
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[NASA-CASE-XLA-00415] c 15 N71-16079
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[NASA-CASE-LAR-11902-1] c 27 N78-17206
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[NASA-CASE-NPO-13690-1] c 27 N78-19302
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
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[NASA-CASE-NPO-13690-2] c 27 N79-14213
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[NASA-CASE-NPO-13823-1] c 37 N81-25371
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
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[NASA-CASE-LEW-14392-2] c 27 N89-29538
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Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-23541
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
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[NASA-CASE-LEW-14999-1] c 24 N91-13500
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[NASA-CASE-LEW-14921-1] c 24 N91-13502
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
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[NASA-CASE-LEW-15164-1] c 27 N91-25298
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
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[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236
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[NASA-CASE-LEW-14676-1] c 33 N91-31529
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Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
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Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
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[NASA-CASE-LEW-13639-1] c 26 N84-33555
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Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
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Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
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Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
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Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
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Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
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Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
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[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
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[NASA-CASE-XLE-00150] c 28 N70-41818

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[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
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Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
CHARACTER RECOGNITION
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
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Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
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Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
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[NASA-CASE-NPO-14426-1] c 33 N81-27396
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[NASA-CASE-NPO-15345-1] c 74 N84-23247
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
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[NASA-CASE-MSC-21675-1] c 52 N91-13865
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
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Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
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State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
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Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
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Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
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Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
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Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
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Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
CHARRING
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
CHASSIS
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
CHECKOUT
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
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Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
CHEMICAL ANALYSIS
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
CHEMICAL AUXILIARY POWER UNITS
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
CHEMICAL BONDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
CHEMICAL COMPOSITION
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
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Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
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Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
CHEMICAL ENGINEERING
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162
CHEMICAL EXPLOSIONS
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
CHEMICAL INDICATORS
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
CHEMICAL MACHINING
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
CHEMICAL PROPERTIES
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
CHEMICAL REACTIONS
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
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Polyurethanes from fluoroalkyl propyleneglycol polyethers
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[NASA-CASE-MFS-10509] c 06 N73-30103
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
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[NASA-CASE-ARC-10304-2] c 27 N74-27037
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
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[NASA-CASE-LAR-12054-2] c 27 N81-14078
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
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Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
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[NASA-CASE-LAR-13316-1] c 27 N86-27450
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

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[NASA-CASE-NPO-13650-1] c 25 N79-28253
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
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[NASA-CASE-NPO-15071-1] c 44 N82-16475
Thermal reactor --- liquid silicon production from silane gas
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[NASA-CASE-NPO-15100-1] c 44 N84-14583
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
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[NASA-CASE-LAR-10539-1] c 17 N73-12547
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[NASA-CASE-LAR-10953-1] c 17 N73-27446
Chemical approach for controlling nadimide cure temperature and rate
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CHEMILUMINESCENCE
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

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Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

CHEMOTHERAPY
Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

CHIPS (ELECTRONICS)
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
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[NASA-CASE-LAR-13628-1] c 35 N90-23707
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

CHIPS (MEMORY DEVICES)
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

CHIRP SIGNALS
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

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[NASA-CASE-LAR-13316-2] c 27 N87-14515
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

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Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CHLOROPRENE RESINS
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

CHOLESTEROL
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

CHROMIUM ALLOYS
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM CARBIDES
Method of making carbide/fluoride/silver composites
[NASA-CASE-LEW-14902-1] c 24 N91-27244

CHROMIUM COMPOUNDS
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCLES (GEOMETRY)
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462

CIRCUIT BOARDS
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

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Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

CIRCUIT RELIABILITY
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

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Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

CIRCULAR CONES
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

CIRCULAR CYLINDERS
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

CIRCULAR POLARIZATION
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

CIRCULAR TUBES
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CIRCULATION CONTROL AIRFOILS
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

CIRCULATORS (PHASE SHIFT CIRCUITS)
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

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Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

CLADDING
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199

CLAMPING CIRCUITS
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

CLAMPS
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655

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General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911

CLAYS
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

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Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

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Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222

CLEANING
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222

CLEAR AIR TURBULENCE
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

CLEARANCES
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CLEAVAGE
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CLIMBING FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

CLINICAL MEDICINE
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLIPS
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

CLOCKS
Time synchronization system utilizing moon reflected *coded signals* Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

CLOSED CIRCUIT TELEVISION
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

CLOSED CYCLES
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

CLOSED ECOLOGICAL SYSTEMS
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Space vehicle with artificial gravity and earth-like *environment*
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

CLOSTRIDIUM
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

CLOSURES
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Spacesuit *torso closure*
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862

CLUTCHES
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970

CLUTTER
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

CMOS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

COAGULATION
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

COAL
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

COAL GASIFICATION
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

COAL LIQUEFACTION
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

COAL UTILIZATION
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

COATING
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Improved sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N91-24426
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

COATINGS
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
Method of insetting predesigned disbond areas into *composite laminates*
[NASA-CASE-LAR-13225-1] c 24 N90-25197
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424

COAXIAL CABLES
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
System for stabilizing cable phase delay utilizing a *coaxial cable under pressure*
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

COAXIAL PLASMA ACCELERATORS
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951

COBALT
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COBALT ALLOYS
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

COBALT COMPOUNDS
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

COBALT OXIDES
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206

COCKPIT SIMULATORS
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

COCKPITS
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

CODERS
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
CODING
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
COEFFICIENT OF FRICTION
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
COENZYMES
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
COHERENT ELECTROMAGNETIC RADIATION
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
COHERENT LIGHT
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
COHERENT RADIATION
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
COINCIDENCE CIRCUITS
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
COLD CATHODES
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
COLD GAS
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
COLD WELDING
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
COLD WORKING
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
COLLAPSE
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
COLLECTION
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
COLLIMATION
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
COLLIMATORS
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515
COLLISION AVOIDANCE
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
COLLISIONS
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
COLLOIDAL GENERATORS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
COLLOIDAL PROPELLANTS
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
COLLOIDS
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
COLOR
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
COLOR PHOTOGRAPHY
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
COLOR TELEVISION
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
COLOR VISION
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
COLUMNS
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
COLUMNS (PROCESS ENGINEERING)
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
COLUMNS (SUPPORTS)
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
COMBINATORIAL ANALYSIS
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
COMBINED CYCLE POWER GENERATION
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495
COMBUSTION
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
COMBUSTION CHAMBERS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

COMBUSTION CONTROL
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

COMBUSTION EFFICIENCY
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

COMBUSTION PHYSICS
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

COMBUSTION PRODUCTS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025

COMBUSTION STABILITY
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

COMET TAILS
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

COMFORT
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

COMMAND AND CONTROL
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779

COMMAND MODULES
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

COMMUNICATING
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207

COMMUNICATION
Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146

COMMUNICATION CABLES
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

COMMUNICATION EQUIPMENT
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316

COMMUNICATION NETWORKS
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

COMMUNICATION SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

COMMUTATION
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

COMMUTATORS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199

COMPARATOR CIRCUITS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

COMPARATORS
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

COMPARTMENTS
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

COMPATIBILITY
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

COMPENSATORS
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

COMPLEX COMPOUNDS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

COMPLEX SYSTEMS
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

COMPONENT RELIABILITY
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

COMPOSITE MATERIALS
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201

COMPOSITE PROPELLANTS
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

COMPOSITE STRUCTURES
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199

COMPOSITION (PROPERTY)
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393

COMPRESSED AIR
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409

COMPRESSIBILITY
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

COMPRESSIBLE FLUIDS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600

COMPRESSING
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

COMPRESSION LOADS
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491

COMPRESSION RATIO
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

COMPRESSION TESTS
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967

COMPRESSIVE STRENGTH
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786

COMPRESSOR BLADES
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

COMPRESSOR ROTORS
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

COMPRESSORS
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

COMPUTATION
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTATIONAL GRIDS
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462

COMPUTER ANIMATION
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

COMPUTER ASSISTED INSTRUCTION
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

COMPUTER COMPONENTS
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COMPUTER DESIGN
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COMPUTER GRAPHICS
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120

COMPUTER INFORMATION SECURITY
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583

COMPUTER NETWORKS
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693

COMPUTER PROGRAMMING
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

COMPUTER PROGRAMS
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N91-23724

COMPUTER STORAGE DEVICES

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

COMPUTER SYSTEMS DESIGN

Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

COMPUTER TECHNIQUES

Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

COMPUTER VISION

Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

COMPUTERIZED SIMULATION

Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741

COMPUTERS

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518

CONCAVITY

Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS

Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

CONCENTRIC CYLINDERS

Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

CONCENTRIC SPHERES

Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONCURRENT PROCESSING

Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772

CONDENSATES

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

CONDUCTING FLUIDS

Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTION ELECTRONS

Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

CONDUCTIVE HEAT TRANSFER

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

CONDUCTIVITY

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

CONDUCTORS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

CONES

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783

CONFINEMENT

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL SCANNING

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722

CONJUGATES

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210

CONNECTORS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525

Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577

CONSCIOUSNESS
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

CONSISTENCY
Constant-output atomizer --- inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

CONSOLES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

CONSOLIDATION
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200

CONSTANTS
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417

CONSTRAINTS
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

CONSTRUCTION MATERIALS
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

CONTACT POTENTIALS
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

CONTAINERLESS MELTS
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489

CONTAINERS
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397

CONTAINMENT
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

CONTAMINANTS
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152

CONTAMINATION
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

CONTINUOUS RADIATION
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

CONTINUOUS WAVE RADAR
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

CONTINUUM FLOW
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

CONTOUR SENSORS
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

CONTOURS
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Cork-resin ablative insulation for complex surfaces and *method for applying the same*
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

CONTROL
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

CONTROL BOARDS
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

CONTROL DATA (COMPUTERS)
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721

CONTROL EQUIPMENT
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Digital controller for a Baum folding machine --- providing *automatic counting and machine shutoff*
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

CONTROL ROCKETS
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

CONTROL RODS
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

CONTROL SIMULATION
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CONTROL STABILITY
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

CONTROL SURFACES
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859

Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

CONTROL SYSTEMS DESIGN
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

CONTROL THEORY
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

CONTROL UNITS (COMPUTERS)
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

CONTROL VALVES
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563

CONTROLLED ATMOSPHERES
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS
Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

CONVECTION
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

CONVECTIVE FLOW
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVECTIVE HEAT TRANSFER
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215

CONVERGENCE
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N91-24878

CONVERGENT NOZZLES
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

CONVERSION
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEXITY
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

CONVEYORS
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

CONVOLUTION INTEGRALS
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COOLANTS
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159

COOLERS
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385

COOLING
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

COOLING SYSTEMS
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

COORDINATES
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544

COPOLYMERIZATION
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

COPOLYMERS
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Toughening reinforced epoxy composites with *brominated polymeric additives*
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953

COPPER
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

COPPER CHLORIDES
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

COPPER COMPOUNDS
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

CORDAGE
Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Electromagnetic transducer recording head having a *laminated core section and tapered gap*
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

CORK (MATERIALS)
Cork-resin ablative insulation for complex surfaces and *method for applying the same*
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORRECTION
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543

CORRELATION
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

CORROSION
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

CORRUGATED PLATES
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786

CORRUGATING
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

COST ANALYSIS
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460

COST EFFECTIVENESS
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

COST REDUCTION
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614

COUCHES
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERBALANCES
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

COUNTERS
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

COUNTING CIRCUITS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

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[NASA-CASE-LAR-14361-1] c 71 N91-16707

COUPLES
Two fault tolerant toggle-hook release
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[NASA-CASE-XLA-00189] c 33 N70-36846
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Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

COUPLING CIRCUITS
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
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[NASA-CASE-XMS-07846-1] c 09 N69-21927
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[NASA-CASE-XLA-02854] c 15 N69-27490
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[NASA-CASE-XLA-01441] c 15 N70-41679
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[NASA-CASE-XMS-02532] c 15 N70-41808
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[NASA-CASE-XKS-01985] c 15 N71-10782
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[NASA-CASE-MFS-12805] c 15 N71-17805
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
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[NASA-CASE-XLA-04897] c 15 N72-22482
Refrigerated coaxial coupling --- for microwave equipment
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[NASA-CASE-GSC-12059-1] c 35 N77-27366
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[NASA-CASE-KSC-11069-1] c 52 N79-26772
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[NASA-CASE-GSC-12322-1] c 37 N80-14398
Device for coupling a first vehicle to a second vehicle
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[NASA-CASE-ARC-11114-1] c 51 N81-14605
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[NASA-CASE-MSC-18742-1] c 37 N82-26673
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[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
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[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525
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[NASA-CASE-MSC-21671-1] c 37 N91-32498

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[NASA-CASE-LAR-12968-1] c 60 N86-21154

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Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

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[NASA-CASE-LEW-13199-1] c 07 N82-26293

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Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

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Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712

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Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

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[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

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[NASA-CASE-MFS-16609-3] c 03 N76-32140
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Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
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Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
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[NASA-CASE-NPO-10070] c 15 N71-27372
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[NASA-CASE-XMF-05373-1] c 33 N79-21264
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[NASA-CASE-NPO-13283] c 38 N78-17395
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[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
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[NASA-CASE-LAR-12326-1] c 02 N81-14968
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
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Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
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Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
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[NASA-CASE-XLA-03374] c 25 N71-15562
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Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
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[NASA-CASE-LEW-13770-2] c 25 N85-28982
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
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[NASA-CASE-LAR-14036-1] c 27 N91-13562
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[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
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Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
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[NASA-CASE-LAR-12615-1] c 05 N84-12154
CRUDE OIL
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
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System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
CRYOGENIC COOLING
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176
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Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
CRYOGENIC FLUID STORAGE
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-36020
Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
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Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
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Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323

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Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
CRYOGENIC ROCKET PROPELLANTS
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
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Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
CRYOGENIC TEMPERATURE
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
CRYOGENIC WIND TUNNELS
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
CRYOGENICS
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546
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Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
CRYOSTATS
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
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Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
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[NASA-CASE-ARC-10463-1] c 09 N73-32111
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
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Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
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Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
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[NASA-CASE-NPO-15772-1] c 76 N85-29800
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
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[NASA-CASE-NPO-15800-2] c 76 N87-23286
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
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[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
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[NASA-CASE-MFS-28137-1] c 76 N88-24544
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
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[NASA-CASE-MFS-28234-1] c 52 N90-20616
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[NASA-CASE-MFS-26047-1] c 29 N90-21209
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[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
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[NASA-CASE-MFS-28281-1] c 09 N90-23415
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[NASA-CASE-MFS-28182-1] c 76 N90-24169
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
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[NASA-CASE-XFR-00756] c 02 N71-13421
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[NASA-CASE-XNP-01068] c 10 N71-28739
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[NASA-CASE-MSC-20964-1] c 60 N87-14863
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
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[NASA-CASE-ARC-11536-1] c 33 N89-14384
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Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
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[NASA-CASE-XLA-07828] c 08 N71-27057
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
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Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
DATA RECORDERS
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
DATA RECORDING
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
DATA REDUCTION
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

DATA RETRIEVAL
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852

DATA STRUCTURES
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863

DATA SYSTEMS
Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DATA TRANSFER (COMPUTERS)
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

DATA TRANSMISSION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061

DAWSONITE
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEACTIVATION
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N91-23380

DEBRIS
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858
Load limiting, energy absorbing, lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N91-24216

DECAY RATES
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Hot air ballon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

DECODERS
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

DECODING
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

DECOMMUTATORS
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DECONTAMINATION
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DECOUPLING
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

DEEP SPACE NETWORK
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N91-23724

DEFLECTION
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

DEFLECTORS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

DEFOCUSING
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732

DEGASSING
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

DEGREES OF FREEDOM
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

DEHUMIDIFICATION
Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

DEHYDRATED FOOD
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

DEHYDRATION
Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

DEICERS
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

DEIONIZATION
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

DELAMINATING
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

DELAY CIRCUITS
Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

DELAY LINES
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

DELTA WINGS
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

DEMAGNETIZATION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMODULATION
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

DEMODULATORS
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

DENDRITIC CRYSTALS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

DENSITOMETERS
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

DENTISTRY
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXIDIZING
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

DEOXYGENATION
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
Load limiting, energy absorbing, lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N91-24216
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139

DEPOSITION
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

DEPOSITS
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

DEPTH MEASUREMENT
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DESCENT
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

DESORPTION
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

DESTRUCTIVE TESTS
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

DESULFURIZING
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

DETECTION
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
Focal plane array optical proximity sensor
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[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
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[NASA-CASE-LAR-13816-1] c 35 N90-22025
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[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239
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[NASA-CASE-XLA-00936] c 14 N71-14996
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[NASA-CASE-XLA-05906] c 31 N71-16221
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[NASA-CASE-XMF-06531] c 14 N71-17575
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[NASA-CASE-MSC-13530-2] c 23 N75-14834
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[NASA-CASE-NPO-13935-1] c 52 N79-14751
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[NASA-CASE-NPO-14402-1] c 52 N81-27783
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[NASA-CASE-LAR-14361-1] c 71 N91-16707
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[NASA-CASE-NPO-14101-1] c 52 N80-14687

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[NASA-CASE-MFS-28287-1] c 35 N88-23959

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[NASA-CASE-XMF-04133] c 06 N71-20717
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[NASA-CASE-XMF-03074] c 06 N71-24740
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[NASA-CASE-MFS-13994-2] c 06 N72-25148
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
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[NASA-CASE-LAR-12054-1] c 27 N79-33316
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[NASA-CASE-ARC-11421-2] c 27 N86-31726
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[NASA-CASE-LAR-13351-1] c 27 N86-31727
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[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
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[NASA-CASE-ARC-11533-3] c 27 N87-24564
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[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
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[NASA-CASE-LAR-14162-1] c 27 N90-15259
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[NASA-CASE-LAR-14001-1] c 27 N90-15260
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[NASA-CASE-LAR-13821-1] c 27 N90-16950
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[NASA-CASE-LAR-14188-1] c 27 N90-23545
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[NASA-CASE-LEW-15027-1] c 27 N91-13566
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

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Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
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[NASA-CASE-LEW-13837-2] c 24 N85-21267

DIAPHRAGMS (MECHANICS)
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[NASA-CASE-XMS-01546] c 14 N70-40233
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[NASA-CASE-XNP-01962] c 32 N70-41370
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[NASA-CASE-XLA-02651] c 28 N70-41967
Means for controlling rupture of shock tube diaphragms Patent
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Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
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[NASA-CASE-XAC-02981] c 14 N71-21072
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[NASA-CASE-XNP-05297] c 15 N71-23811
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[NASA-CASE-MFS-14216] c 14 N73-13418
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

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[NASA-CASE-ARC-10370-1] c 36 N75-31426

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Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
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[NASA-CASE-GSC-12171-1] c 33 N79-28416

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[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIDYMIUM
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

DIELECTRIC PROPERTIES
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

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Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
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[NASA-CASE-HQN-10541-2] c 15 N71-27135
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
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[NASA-CASE-LAR-10294-1] c 26 N72-28762
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956

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Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
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[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
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[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418

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Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

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[NASA-CASE-XNP-05297] c 15 N71-23811
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
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[NASA-CASE-GSC-12619-1] c 37 N84-12491
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
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[NASA-CASE-LAR-14459-1] c 24 N91-15334

DIESEL ENGINES
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

DIETS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

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Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

DIFFERENCES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

DIFFERENTIAL AMPLIFIERS
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438

DIFFERENTIAL INTERFEROMETRY
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

DIFFERENTIAL PRESSURE
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[NASA-CASE-XMS-05894-1] c 15 N69-21924
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

DIFFERENTIAL PULSE CODE MODULATION
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[NASA-CASE-LEW-14945-1] c 32 N91-13598

DIFFERENTIATION (BIOLOGY)
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852

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Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

DIFFRACTION
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

DIFFRACTION PATTERNS
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

DIFFRACTOMETERS
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

DIFFUSE RADIATION
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

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Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

DIFFUSION
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

DIFFUSION LENGTH
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

DIFFUSION PUMPS
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

DIFFUSION WELDING
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

DIFFUSIVITY
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

DIGITAL COMMAND SYSTEMS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

DIGITAL COMPUTERS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

DIGITAL DATA
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

DIGITAL ELECTRONICS
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

DIGITAL FILTERS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684

DIGITAL INTEGRATORS
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550

DIGITAL TECHNIQUES
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

DIGITAL TO ANALOG CONVERTERS
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

DIGITAL TRANSDUCERS
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

DILUTION
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

DIMENSIONAL MEASUREMENT
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

DIMENSIONS
Projection system for display of parallax and *perspective*
[NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

DIPOLE ANTENNAS
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336

DIPPING
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

DIRECT CURRENT
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Frequency control network for a current feedback *oscillator* Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

DIRECT LIFT CONTROLS
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

DIRECTIONAL ANTENNAS
Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

DIRECTIONAL SOLIDIFICATION (CRYSTALS)
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462

DIRECTIONAL STABILITY
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275

DIRECTIVITY
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

DISABILITIES
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

DISCONNECT DEVICES
Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

DISCONTINUITY
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

DISKS
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609

DISPENSERS
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466

DISPERSING
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

DISPLACEMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415

DISPLACEMENT MEASUREMENT
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

DISPLAY DEVICES
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

DISSIPATION
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

DISSOCIATION
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
DISTANCE
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N91-24878
DISTANCE MEASURING EQUIPMENT
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
DISTILLATION EQUIPMENT
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
DISTRIBUTED AMPLIFIERS
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
DISTRIBUTED PROCESSING
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Distributed computing system with dual independent communications paths between computers and employing split tokens
[NASA-CASE-NPO-17185-1-CU] c 62 N91-14772
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
DISTRIBUTION (PROPERTY)
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
DISTRIBUTORS
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
DIVERGENT NOZZLES
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
DIVERTERS
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
DIVIDERS
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836
DOCUMENT STORAGE
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
DOMES (STRUCTURAL FORMS)
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
DOORS
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
DOPES
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
DOPPLER EFFECT
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557
DOPPLER RADAR
Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
DOSIMETERS
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
DOWNLINKING
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
DRAG CHUTES
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
DRAG MEASUREMENT
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
DRAG REDUCTION
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156
DRAINAGE
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305
DRIFT (INSTRUMENTATION)
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
DRILL BITS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
DRILLING
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415
DRILLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
DRIVES
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
DROP TOWERS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
DROPS (LIQUIDS)
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
DRUGS
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616
DRY HEAT
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
DRYING
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
DRYING APPARATUS
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
DUCTED FANS
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
DUCTILITY
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
DUCTS
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
DURABILITY
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
DUST COLLECTORS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

DYE LASERS
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several *dye lasers --- with single flash lamp*
[NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES
Dye penetrant for surfaces subsequently contacted by *liquid oxygen* Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method for retarding dye fading during archival storage of developed color photographic film --- inert *atmosphere*
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

DYNAMIC CHARACTERISTICS
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Apparatus for and method of compensating dynamic *unbalance*
[NASA-CASE-GSC-12550-1] c 37 N84-28082

DYNAMIC CONTROL
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

DYNAMIC LOADS
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

DYNAMIC MODELS
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

DYNAMIC MODULUS OF ELASTICITY
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

DYNAMIC PRESSURE
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155

DYNAMIC RESPONSE
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DYNAMIC STRUCTURAL ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

DYNAMIC TESTS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184

DYNAMICAL SYSTEMS
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

DYNAMOMETERS
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

EARPHONES
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953

EARTH ATMOSPHERE
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

EARTH CRUST
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

EARTH IONOSPHERE
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

EARTH ORBITS
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222

ECCENTRICITY
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001

ECCENTRICS
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

ECHELLE GRATINGS
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

ECHO SOUNDING
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

ECHOES
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

EDDY CURRENTS
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

EDGES
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

EDITING
Generation of animation sequences of three dimensional *models*
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

EDUCATION
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

EFFICIENCY
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

EFFLUENTS
Vortex generator for controlling the dispersion of *effluents in a flowing liquid*
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several *points*
[NASA-CASE-MSC-16841-1] c 34 N79-24285

EGRESS
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142

EJECTION
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

EJECTION SEATS
Device for separating occupant from an ejection seat *Patent*
[NASA-CASE-XMS-04625] c 05 N71-20718

EJECTORS
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

ELASTIC BODIES
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865

ELASTIC DEFORMATION
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

ELASTIC MEDIA
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156

ELASTIC PROPERTIES
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

ELASTIC SHEETS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

ELASTOMERS
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Heat sealable, flame and abrasion resistant coated fabric --- *clothing and containers for space exploration*
[NASA-CASE-MSC-18382-1] c 27 N82-16238

Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424

ELBOW (ANATOMY)
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

ELECTRIC ARCS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980

ELECTRIC AUTOMOBILES
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422

ELECTRIC BATTERIES
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
Metal chloride cathode for a battery
[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

ELECTRIC BRIDGES
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

ELECTRIC CELLS
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

ELECTRIC CHARGE
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

ELECTRIC CHOPPERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295

ELECTRIC COILS
Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

ELECTRIC CONDUCTORS
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397

ELECTRIC CONNECTORS
Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454

ELECTRIC CONTACTS
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

ELECTRIC CONTROL
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300

ELECTRIC CURRENT
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271

Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479

ELECTRIC DISCHARGES

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

ELECTRIC ENERGY STORAGE

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

ELECTRIC EQUIPMENT

Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140

ELECTRIC EQUIPMENT TESTS

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842

ELECTRIC FIELD STRENGTH

Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843

ELECTRIC FIELDS

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

ELECTRIC FILTERS

Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171

ELECTRIC FURNACES

High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

ELECTRIC FUSES

Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393

ELECTRIC GENERATORS

Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

ELECTRIC IGNITION

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

ELECTRIC MOTOR VEHICLES
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
ELECTRIC MOTORS
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Redundant speed control for brushless Hall effect *motor*
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
ELECTRIC NETWORKS
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
ELECTRIC POTENTIAL
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Differential current source
[NASA-CASE-GSC-13280-1] c 33 N91-27479
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
ELECTRIC POWER
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
ELECTRIC POWER PLANTS
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
ELECTRIC POWER SUPPLIES
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
ELECTRIC POWER TRANSMISSION
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
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[NASA-CASE-XLE-00252] c 11 N70-34844
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Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
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[NASA-CASE-XLA-03356] c 10 N71-23315
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[NASA-CASE-XMF-08804] c 09 N71-24717
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[NASA-CASE-XNP-06234] c 10 N71-27137
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[NASA-CASE-ARC-10101-1] c 09 N71-33109
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[NASA-CASE-LAR-11607-1] c 32 N77-14292
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[NASA-CASE-KSC-11023-1] c 32 N79-23310
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[NASA-CASE-XAC-08981] c 09 N69-39897
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[NASA-CASE-XNP-00431] c 09 N70-38998
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[NASA-CASE-XMS-10984-1] c 10 N71-19417
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
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[NASA-CASE-MSC-11277] c 09 N71-29008
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[NASA-CASE-XNP-04124] c 28 N71-21822
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[NASA-CASE-NPO-14940-1] c 33 N83-31954
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[NASA-CASE-ARC-10917-1] c 51 N78-27733
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[NASA-CASE-NPO-10404] c 03 N71-12255
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[NASA-CASE-XNP-09808] c 09 N71-12518
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
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[NASA-CASE-XLA-08799] c 10 N71-27272
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
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[NASA-CASE-LEW-10155-1] c 09 N71-29035
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Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fused switch
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Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
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[NASA-CASE-GSC-12553-1] c 34 N83-28356
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

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[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
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[NASA-CASE-GSC-10913] c 15 N72-22491
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[NASA-CASE-XLA-02609] c 09 N72-25256
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
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[NASA-CASE-XMF-02330] c 15 N71-23798
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
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[NASA-CASE-LEW-10533-1] c 15 N73-28515
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[NASA-CASE-XLE-00023] c 15 N70-33330
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[NASA-CASE-MFS-06074] c 15 N71-20393
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[NASA-CASE-XLA-01794] c 33 N71-21586
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
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[NASA-CASE-LEW-10950-1] c 33 N74-27683
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
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[NASA-CASE-XMF-05757-1] c 31 N79-21227
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
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Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
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[NASA-CASE-XAC-02807] c 09 N71-23021
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[NASA-CASE-MSC-12033-1] c 09 N71-13531
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[NASA-CASE-NPO-10401] c 03 N72-20033
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[NASA-CASE-NPO-13139-1] c 60 N76-21914
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[NASA-CASE-NPO-15696-1] c 33 N85-34333
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[NASA-CASE-XNP-06937] c 09 N71-19516
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
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[NASA-CASE-XLE-03061-1] c 10 N71-24798
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Readout electrode assembly for measuring biological impedance
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[NASA-CASE-MFS-22560-1] c 33 N77-14335
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Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
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[NASA-CASE-MFS-10340] c 15 N71-17628
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
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[NASA-CASE-LEW-10210-1] c 28 N71-26781
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
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[NASA-CASE-NPO-11156-2] c 33 N75-31331
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[NASA-CASE-LEW-11484-1] c 24 N75-33181
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Device for determining the accuracy of the flare on a flared tube
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[NASA-CASE-XNP-09768] c 09 N71-12516
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
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[NASA-CASE-XLE-00820] c 14 N71-16014
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[NASA-CASE-XGS-02439] c 14 N71-19431
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[NASA-CASE-XLE-02008] c 09 N71-21583
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Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
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[NASA-CASE-XNP-04780] c 08 N71-19687
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[NASA-CASE-XGS-11177] c 09 N71-27001
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[NASA-CASE-ERC-10113] c 09 N71-27053
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[NASA-CASE-MSC-13276-1] c 14 N71-27058
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[NASA-CASE-NPO-11190] c 03 N71-34044
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Thermocouple tape --- developed from thermoelectrically different metals
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Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
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Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
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[NASA-CASE-GSC-12207-1] c 24 N79-14156
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[NASA-CASE-LAR-12705-1] c 25 N82-26396
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[NAS 1.71:NPO-15494-2] c 35 N85-34373
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[NASA-CASE-LEW-14734-1] c 24 N89-23623
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[NASA-CASE-NPO-11106] c 14 N70-34697
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[NASA-CASE-ARC-11258-1] c 52 N80-33081
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Sealing device for an electrochemical cell Patent
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Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
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Battery testing device --- for testing cells of multiple-cell battery
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Alkaline electrochemical cells and method of making
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[NASA-CASE-XMS-02872] c 05 N69-21925
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[NASA-CASE-XNP-01959] c 26 N71-23043
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Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
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[NASA-CASE-XLE-03778] c 09 N69-21542
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
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[NASA-CASE-XNP-02839] c 28 N70-41922
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
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[NASA-CASE-XMS-04212-1] c 05 N71-12346
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
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[NASA-CASE-FRC-10029] c 09 N71-24618
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[NASA-CASE-XMS-04213-1] c 09 N71-26002
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Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
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[NASA-CASE-GSC-11367-1] c 44 N74-19692
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[NASA-CASE-MSC-14339-1] c 05 N75-24716
Readout electrode assembly for measuring biological impedance
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Alkaline electrochemical cells and method of making
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[NASA-CASE-NPO-15458-1] c 25 N84-12262
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[NASA-CASE-NPO-15161-1] c 33 N84-16456
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[NASA-CASE-LEW-12919-2] c 70 N84-28565
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High temperature solder device for flat cables
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Aqueous alkali metal hydroxide insoluble cellulose ether membrane
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Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
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Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
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Electrohydrodynamic control valve Patent
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ELECTROKINETICS
Zeta potential flowmeter Patent
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ELECTROLUMINESCENCE
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
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Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

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[NASA-CASE-XGS-03865] c 14 N69-21363
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[NASA-CASE-XLE-04526] c 03 N71-11052
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[NASA-CASE-XGS-01513] c 03 N71-23336
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[NASA-CASE-MSC-13648] c 05 N72-27103
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[NASA-CASE-NPO-15269-1] c 44 N82-29710
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[NASA-CASE-LEW-13653-1] c 44 N84-28205
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[NASA-CASE-NPO-15722-1] c 35 N85-29212
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[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
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[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796
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Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204
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[NASA-CASE-LEW-13148-1] c 33 N80-20487
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
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Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
ELECTROMAGNETIC FIELDS
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
ELECTROMAGNETIC HAMMERS
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
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[NASA-CASE-MSC-12168-1] c 09 N71-18600
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006
ELECTROMAGNETIC MEASUREMENT
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
ELECTROMAGNETIC NOISE
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
ELECTROMAGNETIC PROPERTIES
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
ELECTROMAGNETIC PROPULSION
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
ELECTROMAGNETIC PULSES
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
ELECTROMAGNETIC PUMPS
Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
ELECTROMAGNETIC RADIATION
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023
ELECTROMAGNETIC SHIELDING
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
ELECTROMAGNETIC WAVE FILTERS
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
ELECTROMAGNETIC WAVE TRANSMISSION
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
ELECTROMAGNETISM
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
ELECTROMAGNETS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
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Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
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[NASA-CASE-ERC-10088] c 26 N71-25490
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[NASA-CASE-ERC-10022] c 15 N71-26635
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
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Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
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Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
ELECTROMOTIVE FORCES
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
ELECTRON ATTACHMENT
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
ELECTRON BEAM WELDING
Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
ELECTRON BEAMS
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

ELECTRON BOMBARDMENT
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Single grid accelerator for an ion thrustor
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ELECTRON CAPTURE
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

ELECTRON DISTRIBUTION
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

ELECTRON EMISSION
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

ELECTRON ENERGY
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

ELECTRON FLUX DENSITY
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982

ELECTRON GUNS
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

ELECTRON IRRADIATION
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245

ELECTRON MICROSCOPES
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON MICROSCOPY
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

ELECTRON OSCILLATIONS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

ELECTRON PHOTON CASCADES
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473

ELECTRON PLASMA
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661

ELECTRON SCATTERING
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

ELECTRON SOURCES
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408

ELECTRON TRANSFER
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

ELECTRON TRANSITIONS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

ELECTRON TUBES
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTRON TUNNELING
Doped Josephson tunneling junction for use in a *sensitive IR detector*
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492

ELECTRONIC CONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729

ELECTRONIC EQUIPMENT
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Method and apparatus for detecting surface ions on *silicon diodes and transistors*
[NASA-CASE-ERC-10325] c 15 N72-25457
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

ELECTRONIC EQUIPMENT TESTS
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

ELECTRONIC FILTERS
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

ELECTRONIC MODULES
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706

ELECTRONIC PACKAGING
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Frangible electrochemical cell
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[NASA-CASE-MFS-21919-1] c 10 N73-25243
Integrated circuit package with lead structure and method of preparing the same
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[NASA-CASE-ARC-10132-1] c 09 N71-24597
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Electromagnetic transducer recording head having a laminated core section and tapered gap
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[NASA-CASE-FRC-10029] c 09 N71-24618

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[NASA-CASE-XLA-08966-1] c 17 N71-25903
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
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[NASA-CASE-MSC-21366-1] c 54 N90-25498

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[NASA-CASE-XLE-00817] c 28 N70-33265
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Electrostatic plasma modulator for space vehicle re-entry communication Patent
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[NASA-CASE-LEW-11583-1] c 35 N79-17192
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ELECTROSTATIC PROBES
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
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[NASA-CASE-XLE-01902] c 28 N71-10574
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[NASA-CASE-GSC-10709-1] c 28 N71-25213

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Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
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[NASA-CASE-GSC-12817-1] c 33 N85-29146

ELECTROSTATICS
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Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
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[NASA-CASE-MFS-28294-1] c 31 N91-14508

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[NASA-CASE-XLE-00267] c 28 N70-33356
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[NASA-CASE-XLE-01783] c 28 N70-34175
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[NASA-CASE-LEW-14037-1] c 20 N87-16875

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[NASA-CASE-MFS-14017] c 14 N71-26627
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[NASA-CASE-XKS-07814] c 15 N71-27067
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[NASA-CASE-ARC-11363-1] c 31 N87-16918

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[NASA-CASE-KSC-10513] c 15 N72-25453

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High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

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ELUTION
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[NASA-CASE-NPO-12130-1] c 25 N75-14844
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

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Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518

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Magneto acoustic emission apparatus for testing materials for embrittlement
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Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
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[NASA-CASE-LAR-13780-1] c 18 N91-13481
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[NASA-CASE-MSC-21332-1] c 03 N91-15142
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[NASA-CASE-LAR-14322-1] c 02 N91-27139
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[NASA-CASE-XMS-01115] c 05 N70-39922

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[NASA-CASE-XMS-06162] c 31 N71-28851
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[NASA-CASE-MFS-21042] c 07 N72-25171
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[NASA-CASE-KSC-11282-1] c 85 N87-21755

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[NASA-CASE-GSC-12892-1] c 32 N89-14374

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Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

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Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
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[NASA-CASE-LAR-14088-1] c 35 N91-13686
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

EMITTERS
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802

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[NASA-CASE-MFS-20095] c 24 N72-11595

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[NASA-CASE-GSC-10007] c 18 N71-16046
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[NASA-CASE-XGS-05180] c 18 N71-25881
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[NASA-CASE-ERC-10150] c 14 N71-28992
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
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[NASA-CASE-LEW-12185-1] c 44 N78-25528
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[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
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[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
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[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490

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Totally confined explosive welding
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[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
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[NASA-CASE-NPO-15959-2] c 37 N91-14616
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[NASA-CASE-GSC-13261-1] c 37 N91-17401
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[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
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[NASA-CASE-MSC-21463-1] c 37 N91-23490
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577

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[NASA-CASE-MFS-15162] c 14 N72-32452
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[NASA-CASE-XLA-01781] c 14 N69-39975

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Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

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Non-reusuable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
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[NASA-CASE-XMS-03722] c 15 N71-21530
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[NASA-CASE-XNP-01848] c 15 N71-28959
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
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[NASA-CASE-MFS-20863] c 31 N73-26876
Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
Load limiting, energy absorbing, lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N91-24216

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Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

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[NASA-CASE-NPO-15210-1] c 25 N84-22709

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Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
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[NASA-CASE-MFS-23062-1] c 37 N77-12402
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[NASA-CASE-LAR-14116-1] c 05 N91-14345
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[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538

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[NASA-CASE-XLE-01015] c 03 N69-39898
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[NASA-CASE-XLE-00212] c 03 N70-34134
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
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[NASA-CASE-LEW-12443-1] c 44 N83-32175
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[NASA-CASE-MFS-25978-1] c 44 N87-21410

ENERGY DISSIPATION
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
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[NASA-CASE-NPO-13619-1] c 37 N78-16369
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
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[NASA-CASE-MSC-21555-1] c 37 N91-23492

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[NASA-CASE-NPO-13443-1] c 76 N76-20994

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High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

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[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

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Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
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[NASA-CASE-NPO-13707-1] c 74 N77-28933
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[NASA-CASE-NPO-13675-1] c 44 N77-32580
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[NASA-CASE-LEW-12159-1] c 44 N78-19599
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Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
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[NASA-CASE-LAR-12205-1] c 44 N80-20810
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
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[NASA-CASE-NPO-15071-1] c 44 N82-16475
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

ENERGY SOURCES
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522

ENERGY STORAGE
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
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[NASA-CASE-NPO-11156-2] c 33 N75-31331
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
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[NASA-CASE-LAR-12205-1] c 44 N80-20810
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
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[NASA-CASE-LEW-12541-1] c 44 N78-25529
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[NASA-CASE-XGS-00829-1] c 44 N79-19447
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[NASA-CASE-MFS-23727-1] c 44 N80-14473
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[NASA-CASE-NPO-13652-3] c 44 N80-14474

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[NASA-CASE-MFS-22743-1] c 44 N76-22657
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[NASA-CASE-LEW-14297-1] c 35 N89-12048
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617

ENGINE ANALYZERS
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345

ENGINE CONTROL
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

ENGINE COOLANTS
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

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Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640

ENGINE FAILURE
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

ENGINE INLETS
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

ENGINE MONITORING INSTRUMENTS
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

ENGINE NOISE
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

ENGINE PARTS
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

ENGINE STARTERS
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

ENGINE TESTS
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

ENGINEERING DRAWINGS
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986

ENGRAVING
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

ENTHALPY
Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

ENTRAINMENT
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

ENUMERATION
Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604

ENVIRONMENT SIMULATION
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

ENVIRONMENT SIMULATORS
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

ENVIRONMENTAL CONTROL
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ENVIRONMENTAL ENGINEERING
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

ENVIRONMENTAL MONITORING
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
Vapor fragrancer
[NASA-CASE-LAR-13680-1] c 35 N87-25561

ENVIRONMENTAL TESTS
Multiple environment materials test chamber having a *multiple port X-ray tube for irradiating a plurality of samples* Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

ENVIRONMENTS
Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

ENZYME ACTIVITY
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052

ENZYMES
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

EPICYCLOIDS
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377

EPITAXY
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967

EPOXY COMPOUNDS
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

EPOXY MATRIX COMPOSITES
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

EPOXY RESINS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

EQUATIONS OF MOTION
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

EQUIPMENT
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

EQUIPMENT SPECIFICATIONS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816

High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941

EQUIPOTENTIALS
Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

ERGOMETERS
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

EROSION
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

ERROR ANALYSIS
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622

ERROR CORRECTING CODES
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Local area network with fault-checking, priorities, and *redundant backup*
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

ERROR CORRECTING DEVICES
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

ERROR DETECTION CODES
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

ERROR SIGNALS
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the *receiver*
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

ERRORS
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

ESCAPE CAPSULES
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

ESCHERICHIA
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

ESTERS
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

ESTIMATING
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
Modified fast frequency acquisition via adaptive least *squares algorithm*
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

ETCHING
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Scanning nozzle plating system --- for etching or plating *metals on substrates without masking*
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

ETHANE
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185

ETHERS
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

ETHYL COMPOUNDS
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
The 5-(4-Ethynylophenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

ETHYLENE OXIDE
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

EUTECTIC ALLOYS
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

EUTECTICS
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376

EVACUATING (VACUUM)
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111

EVAPORATION
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

EVAPORATIVE COOLING
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

EVAPORATORS
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
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[NASA-CASE-NPO-15210-1] c 25 N84-22709
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FATIGUE TESTS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Heating and cooling system --- for fatigue test specimens
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Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
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[NASA-CASE-MSC-21354-1] c 37 N88-24969
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Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
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Two fault tolerant toggle-hook release
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[NASA-CASE-XMS-06761] c 05 N69-23192
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[NASA-CASE-MSC-21025-1] c 31 N87-25495
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[NASA-CASE-MSC-21025-4] c 54 N91-14723
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FEED SYSTEMS
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[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
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Constant-output atomizer --- Inhalation therapy and aerosol research
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[NASA-CASE-ARC-10020] c 10 N72-17172
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
FEEDBACK AMPLIFIERS
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
FEEDBACK CIRCUITS
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
FEEDBACK CONTROL
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824
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[NASA-CASE-GSC-13346-1] c 37 N91-28578
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[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

FEEDBACK FREQUENCY MODULATION
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
FEEDERS
Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
FEEDFORWARD CONTROL
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
FEET (ANATOMY)
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
FELTS
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
FEMALES
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
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Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
FERRITES
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
FERROFLUIDS
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
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High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519
FERROMAGNETIC MATERIALS
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
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High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
FETUSES
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
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Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
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[NASA-CASE-LEW-14392-2] c 27 N89-29538
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
FIBER OPTICS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
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[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957
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Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
FIBER STRENGTH
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
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Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
FIELD EFFECT TRANSISTORS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
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Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
FIELD OF VIEW
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
FILAMENT WINDING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
FILAMENTS
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
FILLERS
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

FILLING
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519

FILM COOLING
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

FILM THICKNESS
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

FILMS
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

FILTERS
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FILTRATION
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

FINGERS
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795

FINS
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

FIRE EXTINGUISHERS
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

FIRE PREVENTION
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

FIREPROOFING
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100

FIRES
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

FIRING (IGNITING)
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

FITTING
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731

FITTINGS
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

FIXED WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

FIXTURES
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

FLAME PROBES
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

FLAME RETARDANTS
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

FLAME SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

FLAME TEMPERATURE
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

FLAMES
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

FLAMMABILITY
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

FLANGES
Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

FLAPS (CONTROL SURFACES)
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736

FLARED BODIES
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389

FLASH LAMPS
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

FLAT CONDUCTORS
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

FLAT PLATES
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

FLEXIBILITY
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494

FLEXIBLE BODIES
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

FLEXIBLE WINGS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038

FLEXING
Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

FLIGHT
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

FLIGHT ALTITUDE
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

FLIGHT CLOTHING
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

FLIGHT CONTROL
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Two-axis controller .Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

FLIGHT CREWS
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

FLIGHT INSTRUMENTS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

FLIGHT PATHS
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

FLIGHT RECORDERS
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FLIGHT SAFETY
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

FLIGHT SIMULATION
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
Real-time simulation clock
[NASA-CASE-LAR-14056-1] c 35 N90-23713

FLIGHT SIMULATORS
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27606
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

FLIGHT TESTS
Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLOAT ZONES
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

FLOATING
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

FLOTATION
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS
Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW CHARACTERISTICS
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135

FLOW DIRECTION INDICATORS
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTORTION
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
FLOW DISTRIBUTION
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
FLOW MEASUREMENT
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
FLOW REGULATORS
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Moving wall, continuous flow electronphoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423
Variable orifice flow regulator
[NASA-CASE-MSC-21549-1] c 34 N91-27504
FLOW RESISTANCE
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
FLOW STABILITY
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
FLOW VELOCITY
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135
FLOW VISUALIZATION
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
FLOWMETERS
Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
FLUID AMPLIFIERS
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
FLUID DYNAMICS
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
FLUID FILLED SHELLS
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
FLUID FILMS
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
FLUID FILTERS
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22923-1] c 37 N76-14463

Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

FLUID FLOW
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

FLUID INJECTION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MANAGEMENT
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

FLUID MECHANICS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796

FLUID ROTOR GYROSCOPES
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

FLUID TRANSMISSION LINES
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

FLUIDIZED BED PROCESSORS
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

FLUIDS
Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

FLUORESCENCE
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

FLUORIDES
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

FLUORINATION
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

FLUORINE
Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
FLUORINE COMPOUNDS
Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-4] c 23 N91-25185
FLUORINE ORGANIC COMPOUNDS
Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
FLUORO COMPOUNDS
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-2] c 25 N90-23497
FLUOROCARBONS
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
FLUOROHYDROCARBONS
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141
FLUOROPOLYMERS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
FLUTTER
Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
FLUTTER ANALYSIS
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
FLUX (RATE)
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
FLUX DENSITY
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N91-14538
FLUXES
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
FLYING PLATFORMS
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
FLYWHEELS
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
FOAMS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
FOCAL PLANE DEVICES
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434
FOCI
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
FOCUSING
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
FOG
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
FOILS (MATERIALS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
FOLDING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
FOLDING STRUCTURES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

FOOD
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

FOOTPRINTS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

FORCE
Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

FORCE DISTRIBUTION
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927

FORCED VIBRATION
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

FOREBODIES
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N90-23390

FORMALDEHYDE
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES
Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333

FOSSIL FUELS
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

FOUNDATIONS
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

FOURIER TRANSFORMATION
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

FRACTIONATION
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

FRACTURE MECHANICS
Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

FRACTURE STRENGTH
Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N91-14462
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

FRAMES
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

FRAMING CAMERAS
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

FREE WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

FREEZING
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

FREQUENCIES
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

FREQUENCY ANALYZERS
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607

FREQUENCY CONTROL
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

FREQUENCY CONVERTERS
Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

FREQUENCY DISCRIMINATORS
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

FREQUENCY DISTRIBUTION
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

FREQUENCY DIVIDERS
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

FREQUENCY DIVISION MULTIPLEXING
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

FREQUENCY MEASUREMENT
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

FREQUENCY MODULATION
Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

FREQUENCY MULTIPLIERS
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

FREQUENCY RANGES
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

FREQUENCY SCANNING
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

FREQUENCY SHIFT
Doppler frequency spread correction device for multiplex *transmissions*
[NASA-CASE-XGS-02749] c 07 N69-39978
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

FREQUENCY SHIFT KEYING
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

FREQUENCY STABILITY
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

FREQUENCY STANDARDS
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

FREQUENCY SYNCHRONIZATION
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

FREQUENCY SYNTHESIZERS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

FRICTION
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

FRICTION DRAG
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071

FRICTION FACTOR
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N91-23380
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

FRICTION MEASUREMENT
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696

FRICTION REDUCTION
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

FRICTIONLESS ENVIRONMENTS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223

FROST
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

FROZEN FOODS
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

FRUSTUMS
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491

FUEL CAPSULES
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846

FUEL CELL POWER PLANTS
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403

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[NASA-CASE-XNP-04264] c 03 N69-21337
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
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[NASA-CASE-MSC-12568-1] c 24 N76-14204
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Reactant pressure differential control for fuel cell gases
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Heat pipes to reduce engine exhaust emissions
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[NASA-CASE-LEW-13142-2] c 07 N86-20389

Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system [NASA-CASE-MSC-21542-1] c 20 N90-26073

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Attitude and propellant flow control system and method Patent [NASA-CASE-XMF-00185] c 21 N70-34539

Flexible ring slosh damping baffle Patent [NASA-CASE-LAR-10317-1] c 32 N71-16103

Buoyant anti-slosh system Patent [NASA-CASE-XLA-04605] c 32 N71-16106

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Force-balanced, throttle valve Patent [NASA-CASE-NPO-10808] c 15 N71-27432

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Automotive gas turbine fuel control [NASA-CASE-LEW-12785-1] c 37 N78-24545

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Passively regulated water electrolysis rocket engine Patent [NASA-CASE-XGS-08729] c 28 N71-14044

Oil cooling system for a gas turbine engine [NASA-CASE-LEW-12830-1] c 07 N77-23106

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Response analyzers for sensors Patent [NASA-CASE-MFS-11204] c 14 N71-29134

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Injector-valve device Patent [NASA-CASE-XLE-00303] c 15 N70-36535

Rocket engine injector Patent [NASA-CASE-XLE-00111] c 28 N70-38199

Injector assembly for liquid fueled rocket engines Patent [NASA-CASE-XMF-00968] c 28 N71-15660

Injection head for delivering liquid fuel and oxidizers [NASA-CASE-NPO-10046] c 28 N72-17843

Injector for use in high voltage isolators for liquid feed lines [NASA-CASE-NPO-11377] c 15 N73-27406

Supercritical fuel injection system [NASA-CASE-LEW-12990-1] c 07 N81-29129

Low thrust monopropellant engine [NASA-CASE-GSC-12194-2] c 20 N82-18314

Heat pipes to reduce engine exhaust emissions [NASA-CASE-LEW-12590-1] c 37 N84-22958

Low loss injector for liquid propellant rocket engines [NASA-CASE-MFS-25989-1] c 20 N87-14420

Method of injecting fluid propellants into a rocket combustion chamber [NASA-CASE-LEW-14846-2] c 20 N91-26200

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Fuel delivery system including heat exchanger means [NASA-CASE-LEW-12793-1] c 37 N79-11403

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Apparatus for improving the fuel efficiency of a gas turbine engine [NASA-CASE-LEW-13142-1] c 07 N83-36029

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FUEL TANK PRESSURIZATION

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Automatic pump Patent [NASA-CASE-XNP-04731] c 15 N71-24042

Propellant tank pressurization system Patent [NASA-CASE-XNP-00650] c 27 N71-28929

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Buoyant anti-slosh system Patent [NASA-CASE-XLA-04605] c 32 N71-16106

Instrument for measuring the dynamic behavior of liquids Patent [NASA-CASE-XLA-05541] c 12 N71-26387

Electrical apparatus for detection of thermal decomposition of insulation Patent [NASA-CASE-XMF-03968] c 14 N71-27186

High performance channel injection sealant invention abstract [NASA-CASE-ARC-14408-1] c 27 N82-33523

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Cryogenic insulation system [NASA-CASE-LAR-13506-1] c 27 N89-12741

Tank gauging apparatus and method [NASA-CASE-MSC-21059-2] c 35 N91-15511

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Injector-valve device Patent [NASA-CASE-XLE-00303] c 15 N70-36535

Semitoroidal diaphragm cavitating valve Patent [NASA-CASE-XNP-09704] c 12 N71-18615

Filler valve Patent [NASA-CASE-XNP-01747] c 15 N71-23024

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Flow modifying device [NASA-CASE-LEW-13562-2] c 07 N85-35195

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Line following servosystem Patent [NASA-CASE-XAC-00001] c 15 N71-28952

Digital quasi-exponential function generator [NASA-CASE-NPO-11130] c 08 N72-20176

Electro-mechanical sine/cosine generator [NASA-CASE-LAR-10503-1] c 09 N72-21248

Function generator for synthesizing complex vibration mode patterns [NASA-CASE-LAR-10310-1] c 10 N73-20253

Derivation of a tangent function using an integrated circuit four-quadrant multiplier [NASA-CASE-MSC-13907-1] c 10 N73-26230

A generalized compliant motion primitive [NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

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Unfurlable structure including coiled strips thrust launched upon tension release Patent [NASA-CASE-HQN-00937] c 07 N71-28979

Singly-curved reflector for use in high-gain antennas [NASA-CASE-NPO-11361] c 07 N72-32169

Furlable antenna --- antenna design [NASA-CASE-NPO-13553-1] c 33 N76-32457

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Black-body furnace Patent [NASA-CASE-XLE-01399] c 33 N71-15625

Induction furnace with perforated tungsten foil shielding Patent [NASA-CASE-XLE-04026] c 14 N71-23267

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Exothermic furnace module [NASA-CASE-MFS-25707-1] c 35 N82-26631

Apparatus and method for heating a material in a transparent ampoule --- crystal growth [NASA-CASE-MFS-25436-1] c 27 N83-36220

Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity [NASA-CASE-MFS-28087-1] c 35 N87-23944

Method of preparing radially homogeneous mercury cadmium telluride crystals [NASA-CASE-MFS-25786-2] c 76 N90-20896

High temperature electric arc furnace and method [NASA-CASE-MFS-28281-1] c 09 N90-23415

Furnace for tensile/fatigue testing [NASA-CASE-LEW-14848-1] c 14 N91-27175

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Fuselage structure using advanced technology fiber reinforced composites [NASA-CASE-LAR-11688-1] c 24 N82-26384

Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft [NASA-CASE-FRC-11072-1] c 05 N83-27975

Helicopter anti-torque system using strakes [NASA-CASE-LAR-13233-1] c 05 N84-33400

Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag [NASA-CASE-LAR-13511-1] c 05 N88-23765

Helicopter anti-torque system using fuselage strakes [NASA-CASE-LAR-13630-1] c 08 N88-23809

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Bonding graphite with fused silver chloride [NASA-CASE-XGS-00963] c 15 N69-39735

Method for fiberizing ceramic materials Patent [NASA-CASE-XNP-00597] c 18 N71-23088

One-step dual purpose joining technique [NASA-CASE-LAR-12595-1] c 33 N82-26571

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Multicolor printing plate joining [NASA-CASE-LEW-13598-1] c 35 N84-22930

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Method for producing a solar cell having an integral protective covering [NASA-CASE-XGS-04531] c 03 N69-24267

Weld control system using thermocouple wire Patent [NASA-CASE-MFS-06074] c 15 N71-20393

Butt welder for fine gauge tungsten/rhenium thermocouple wire [NASA-CASE-LAR-10103-1] c 15 N73-14468

Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating [NASA-CASE-LEW-11387-1] c 37 N74-18128

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GaAs solar detector using manganese as a doping agent Patent [NASA-CASE-XNP-01328] c 26 N71-18064

Simple method of making photovoltaic junctions Patent [NASA-CASE-XNP-01960] c 09 N71-23027

Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent [NASA-CASE-XNP-01961] c 26 N71-29156

Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements [NASA-CASE-LAR-11144-1] c 25 N75-26043

Vapor deposition apparatus --- semiconductors and gallium arsenides [NASA-CASE-HQN-10462] c 25 N75-29192

GaAs Schottky barrier photo-responsive device and method of fabrication [NASA-CASE-GSC-12816-1] c 76 N86-20150

Liquid encapsulated crystal growth [NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

MBE growth technology for high quality strained III-V layers [NASA-CASE-NPO-17723-1-CU] c 76 N90-26685

Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror [NASA-CASE-NPO-17784-1-CU] c 74 N91-13998

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[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

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[NASA-CASE-XFR-07658-1] c 05 N71-26293

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[NASA-CASE-GSC-12587-1] c 35 N82-32659
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

GAMMA RAYS
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

GANTRY CRANES
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

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Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
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[NASA-CASE-LEW-13401-1] c 44 N82-29709
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[NASA-CASE-MSC-21793-1] c 16 N91-28186

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[NASA-CASE-XFR-10856] c 05 N71-11189
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
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[NASA-CASE-ARC-11100-1] c 54 N78-31736
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[NASA-CASE-MSC-18381-1] c 52 N81-28740
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[NASA-CASE-XMS-03694-1] c 54 N82-29002

GAS ANALYSIS
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
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[NASA-CASE-LAR-10305] c 14 N71-26137
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
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[NASA-CASE-LAR-11675-1] c 45 N76-17656
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
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[NASA-CASE-GSC-12143-1] c 35 N77-32456
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

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[NASA-CASE-XLA-09881] c 31 N71-16085

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Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
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[NASA-CASE-XGS-02011] c 15 N71-20739
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
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[NASA-CASE-ERC-10097] c 15 N71-28465
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
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[NASA-CASE-WLP-10002] c 15 N72-17451
Axially and radially controllable magnetic bearing
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Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Compliant hydrodynamic fluid journal bearing
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[NASA-CASE-XNP-04816] c 06 N69-39936
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[NASA-CASE-XNP-03128] c 10 N70-41991
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[NASA-CASE-NPO-10234] c 06 N72-17094
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[NASA-CASE-NPO-11322] c 06 N72-25146
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

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Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

GAS COOLED REACTORS
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GAS COOLING
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

GAS DENSITY
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Gaseous control system for nuclear reactors
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Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

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Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
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[NASA-CASE-SSC-00006-1] c 35 N91-13691

GAS DISCHARGE TUBES
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

GAS DISCHARGES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

GAS EVOLUTION
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

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Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Refrigeration apparatus Patent
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Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

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Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
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[NASA-CASE-FRC-10012] c 14 N72-17329

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[NASA-CASE-ARC-10106-1] c 28 N72-22769
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[NASA-CASE-MSC-12297] c 14 N72-23457
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[NASA-CASE-NPO-10633] c 03 N72-28025
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
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[NASA-CASE-LEW-13450-1] c 31 N83-35177
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340
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[NASA-CASE-MSC-21059-3] c 35 N91-21495
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GAS GENERATORS
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[NASA-CASE-XLA-08913] c 14 N71-28933
Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
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[NASA-CASE-NPO-11369] c 15 N73-13467
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
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[NASA-CASE-NPO-13342-1] c 37 N76-16446
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[NASA-CASE-NPO-13464-2] c 44 N76-29704
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GAS GUNS
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[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION
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[NASA-CASE-XLE-03494] c 27 N71-21819
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[NASA-CASE-LEW-12217-1] c 43 N78-14452
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
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[NASA-CASE-NPO-14340-1] c 45 N80-14579
Solid sorbent air sampler
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GAS IONIZATION
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[NASA-CASE-XLA-01400] c 07 N70-41331
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[NASA-CASE-MFS-22597] c 36 N78-17366
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
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[NASA-CASE-LEW-12940-1] c 72 N80-33186
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[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

GAS JETS
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[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS
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[NASA-CASE-XGS-03644] c 16 N71-18614
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Diffused waveguiding capillary tube with distributed feedback for a gas laser
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Gas ion laser construction for electrically isolating the pressure gauge thereof
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[NASA-CASE-NPO-13945-1] c 36 N78-27402
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[NASA-CASE-LAR-12870-1] c 36 N84-16542
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
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[NASA-CASE-LAR-13256-1] c 36 N86-29204

GAS LUBRICANTS
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[NASA-CASE-LEW-11949-1] c 37 N76-29588
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[NASA-CASE-LEW-12569-1] c 37 N79-10418
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[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS
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[NASA-CASE-XGS-01504] c 16 N70-41578
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[NASA-CASE-HQN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
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GAS MIXTURES
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[NASA-CASE-XLA-01131] c 14 N71-10774
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[NASA-CASE-XMS-01618] c 14 N71-20741
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[NASA-CASE-XMS-02952] c 18 N71-20742
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[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
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[NASA-CASE-NPO-13650-1] c 25 N79-28253
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[NASA-CASE-NPO-10117] c 15 N71-15608
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[NASA-CASE-MFS-29260-1] c 37 N90-19602

GAS PRESSURE
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[NASA-CASE-XMS-01546] c 14 N70-40233
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[NASA-CASE-XAC-02877] c 14 N70-41681
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[NASA-CASE-ARC-10263-1] c 14 N72-22438
Measurement of gas production of microorganisms --- using pressure sensors
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[NASA-CASE-MSC-18179-1] c 20 N80-18097
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[NASA-CASE-NPO-14596-3] c 31 N83-31896
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[NASA-CASE-MFS-29766-1] c 33 N91-25335
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[NASA-CASE-MSC-21748-1] c 37 N91-25415

GAS STREAMS
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[NASA-CASE-LAR-11139-1] c 35 N74-32878
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[NASA-CASE-LEW-12917-1] c 07 N78-18067
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE
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GAS TRANSPORT
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GAS TUBES
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GAS TUNGSTEN ARC WELDING
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GAS TURBINE ENGINES
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[NASA-CASE-LEW-11187-1] c 28 N73-19793
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
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[NASA-CASE-LEW-11179-1] c 27 N76-16229
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Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
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[NASA-CASE-LEW-12608-1] c 07 N77-27116
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
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[NASA-CASE-LEW-12477-1] c 37 N77-32501
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[NASA-CASE-LEW-12916-1] c 37 N78-17384
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[NASA-CASE-LEW-12389-2] c 07 N78-18066
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[NASA-CASE-LEW-12917-1] c 07 N78-18067
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
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Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Power control for hot gas engines
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[NASA-CASE-LEW-13201-1] c 07 N81-14999
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
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[NASA-CASE-LEW-13506-1] c 37 N85-33490
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
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[NASA-CASE-LEW-13142-2] c 07 N86-20389
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GAS TURBINES
Gas turbine combustor Patent
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Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
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[NASA-CASE-LEW-11877-1] c 34 N78-27357
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
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[NASA-CASE-LEW-15094-1] c 07 N91-23180

GAS VALVES
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[NASA-CASE-XAC-00074] c 15 N70-34817
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

GAS WELDING
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
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[NASA-CASE-MSC-19095-1] c 37 N75-19683

GAS-LIQUID INTERACTIONS
Fluid control apparatus and method
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GAS-METAL INTERACTIONS
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[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

GASDYNAMIC LASERS
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

GASEOUS DIFFUSION
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[NASA-CASE-XLE-02531] c 05 N71-23080
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[NASA-CASE-LEW-10250-1] c 22 N71-28759
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

GASEOUS FISSION REACTORS
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GASEOUS ROCKET PROPELLANTS
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[NASA-CASE-XLE-00376] c 28 N70-37245
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[NASA-CASE-XMF-06926] c 28 N71-22983

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Gas liquefication and dispensing apparatus Patent
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Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

GASIFICATION
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
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GASKETS
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
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[NASA-CASE-MFS-28376-1] c 14 N91-21175

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[NASA-CASE-XGS-01881] c 09 N70-40123
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
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[NASA-CASE-XLA-07391] c 12 N71-17579
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[NASA-CASE-XGS-02440] c 08 N71-19432
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[NASA-CASE-XMS-09352] c 09 N71-23316
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[NASA-CASE-XGS-09186] c 33 N78-17295
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
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[NASA-CASE-MFS-25208-1] c 33 N83-10345
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[NASA-CASE-LAR-12772-1] c 33 N83-16626
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[NASA-CASE-NPO-16045-1] c 76 N87-13313
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[NASA-CASE-LAR-10686] c 14 N71-28935

GAW-1 AIRFOIL
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

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Wabble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

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Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
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[NASA-CASE-MSC-19514-1] c 37 N79-20377
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[NASA-CASE-ARC-11325-1] c 37 N82-22496
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
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[NASA-CASE-NPO-10250] c 23 N71-16212

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Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Cellular thermosetting fluoropolymers and process for making them
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Apparatus for establishing flow of a fluid mass having a known velocity
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[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

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[NASA-CASE-LAR-13776-1] c 35 N88-29149
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[NASA-CASE-MFS-23274-1] c 33 N78-13320
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[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

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[NASA-CASE-GSC-10306-1] c 15 N71-24694
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[NASA-CASE-MSC-10959] c 15 N71-26243
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
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[NASA-CASE-MFS-23551-1] c 04 N76-26175
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

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[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
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[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
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[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
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[NASA-CASE-LAR-10385-3] c 74 N78-15879
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[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

GLASSWARE
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE LANDINGS
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

GLIDE PATHS
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
Multistage estimation of received carrier signal parameters under very high dynamic conditions of the receiver
[NASA-CASE-NPO-17911-1-CU] c 32 N90-27016
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621

GLOBES
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

GLOW DISCHARGES
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRADIENTS
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358

GRANULAR MATERIALS
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE
Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

GRAPHITE-EPOXY COMPOSITES
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

GRAPHITIZATION
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N91-15320

GRATINGS (SPECTRA)
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

GRAVIMETERS
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

GRAVITATIONAL FIELDS
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

GRAVITY GRADIENT SATELLITES
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRAZING INCIDENCE TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459
GREENHOUSES
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
GRINDING (MATERIAL REMOVAL)
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
GROOVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508
GROUND EFFECT (COMMUNICATIONS)
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
GROUND EFFECT MACHINES
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
GROUND HANDLING
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
GROUND STATE
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
GROUND STATIONS
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
GROUND SUPPORT EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
GROUND-AIR-GROUND COMMUNICATION
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
GROUT
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
GUANIDINES
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152
GUARDS (SHIELDS)
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
GUIDANCE (MOTION)
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
GUIDANCE SENSORS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
GUN LAUNCHERS
Self-obturating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247
GUN PROPELLANTS
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084
GUNN EFFECT
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
GUNS
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
GUNS (ORDNANCE)
Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196
GYNECOLOGY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
GYRATORS
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
GYROSCOPES
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
GYROSCOPIC PENDULUMS
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
GYROSTABILIZERS
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

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HABITATS
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
HAFNIUM
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
HALIDES
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
HALL EFFECT
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
HALL GENERATORS
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
HALOGENS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
HAMMERS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
HAND (ANATOMY)
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
HANDLES
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
HANDLING EQUIPMENT
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
HARDENING (MATERIALS)
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
HARDNESS
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
HARMONIC GENERATIONS
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
HARMONIC GENERATORS
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
HARNESSES
Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
HATCHES
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
HAZARDS
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

HEAD-UP DISPLAYS
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
HEART
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
HEART FUNCTION
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
HEART RATE
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Digital computing cardiotachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
HEAT
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
HEAT EXCHANGERS
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796
HEAT FLUX
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072
Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608
HEAT MEASUREMENT
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
HEAT OF COMBUSTION
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
HEAT OF VAPORIZATION
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
HEAT PIPES
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Microwave power receiving antenna Patent
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[NASA-CASE-NPO-13945-1] c 36 N78-27402
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[NASA-CASE-LAR-10311-1] c 16 N73-16536
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[NASA-CASE-ARC-11174-1] c 24 N81-13999
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[NASA-TM-76884] c 24 N85-25436
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[NASA-CASE-LEW-10436-1] c 17 N73-32415
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HIGH STRENGTH STEELS
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[NASA-CASE-XLE-00490] c 33 N70-34545
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[NASA-CASE-XLA-00378] c 11 N71-15925
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
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Method of forming ceramic to metal seal Patent
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[NASA-CASE-LEW-10805-1] c 15 N73-13465
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[NASA-CASE-NPO-13510-1] c 44 N77-32581
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[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
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[NASA-CASE-LEW-14695-1] c 37 N90-23751
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[NASA-CASE-LAR-14338-1] c 24 N90-26881
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[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
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[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494

HIGH TEMPERATURE AIR
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HIGH TEMPERATURE ENVIRONMENTS
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[NASA-CASE-XLE-10466] c 17 N69-25147
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
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[NASA-CASE-LAR-12588-1] c 34 N85-21568
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
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[NASA-CASE-MSC-15567-1] c 33 N73-16918
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[NASA-CASE-LAR-12375-1] c 32 N79-24203

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Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
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[NASA-CASE-XLE-05913] c 33 N71-14032
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[NASA-CASE-XNP-09802] c 33 N71-15641
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[NASA-CASE-LAR-10578-1] c 12 N73-25262
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
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Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
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[NASA-CASE-XLE-08511] c 18 N71-23710
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[NASA-CASE-LEW-11930-4] c 24 N79-17916

HIGH TEMPERATURE PLASMAS
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HIGH TEMPERATURE PROPELLANTS
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High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217

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HIGH TEMPERATURE TESTS
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[NASA-CASE-XAC-00074] c 15 N70-34817
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
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HIGH VACUUM
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
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[NASA-CASE-LAR-10000] c 14 N73-30394
Plasma cleaning device --- designed for high vacuum environments
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Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

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Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
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[NASA-CASE-XNP-00738] c 09 N70-38201
High voltage pulse generator Patent
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High voltage transistor circuit Patent
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High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
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[NASA-CASE-LEW-12444-1] c 33 N77-28385
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[NASA-CASE-LEW-13400-1] c 44 N82-31764
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[NASA-CASE-GSC-12817-1] c 33 N85-29146
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[NASA-CASE-GSC-12818-1] c 33 N85-29147
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[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

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[NASA-CASE-LAR-12077-1] c 31 N81-25259
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

HISTOGRAMS
Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928

HOLDERS
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311

Adjustable force probe
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Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
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[NASA-CASE-NPO-15539-1] c 37 N82-11469
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[NASA-CASE-MFS-25363-1] c 37 N82-12441
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[NASA-CASE-MSC-18723-1] c 35 N83-21312
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
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[NASA-CASE-ARC-11422-1] c 35 N86-20751
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[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
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[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
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[NASA-CASE-MSC-21365-1] c 37 N90-20408
Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545
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[NASA-CASE-LEW-15196-1] c 37 N91-26543
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HOLE DISTRIBUTION (MECHANICS)
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

HOLE GEOMETRY (MECHANICS)
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

HOLE MOBILITY
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460

HOLES (MECHANICS)
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

HOLLOW
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513

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Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

HOLMIUM
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

HOLOGRAPHIC INTERFEROMETRY
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

HOLOGRAPHY
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

HOMING DEVICES
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173

HONEYCOMB CORES
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541

HONEYCOMB STRUCTURES
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737

HOOP COLUMN ANTENNAS
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

HOPPERS
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

HORIZON SCANNERS
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

HORIZONTAL SPACECRAFT LANDING
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986

HORIZONTAL TAIL SURFACES
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

HORN ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

HOSES
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

HOT CATHODES
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889

HOT CORROSION
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

HOT ISOSTATIC PRESSING
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145

HOT PRESSING
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491

HOT WORKING
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803

HOT-FILM ANEMOMETERS
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168

HOT-WIRE ANEMOMETERS
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454

HOT-WIRE FLOWMETERS
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

HOUSINGS
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

HOVERING
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039

HUBBLE SPACE TELESCOPE
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817

HUBS
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

HUGONIOT EQUATION OF STATE
Determining particle density using known material Hugeniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810

HULLS (STRUCTURES)
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

HUMAN BEINGS
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067

HUMAN BODY
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N90-23706

HUMAN FACTORS ENGINEERING
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

HUMAN PERFORMANCE
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

HUMAN REACTIONS
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

HUMAN WASTES
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

HUMIDITY
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

HUMIDITY MEASUREMENT
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

HYBRID CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

HYBRID COMPUTERS
Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920

HYBRID PROPELLANTS
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392

HYDRAULIC CONTROL
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479

HYDRAULIC EQUIPMENT
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733

HYDRAULIC FLUIDS
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790

HYDRAULIC JETS
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

HYDRAZIDES
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237

HYDRAZINE ENGINES
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510

HYDRAZINE NITROFORM
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764

HYDRAZINES
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

HYDRIDES
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

HYDROCARBON COMBUSTION
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

HYDROCARBON FUEL PRODUCTION
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261

HYDROCARBON FUELS
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

HYDROCARBONS
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Preparation of polyimides from bis(N-isoprenyl)s of aryl diamides
[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560

HYDROCHLORIC ACID
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368

HYDROCHLORIDES
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

HYDRODYNAMICS
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410

HYDROFOILS
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

HYDROFORMING
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346

HYDROGEN
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Pulse activated polarographic hydrogen detector *Patent*
[NASA-CASE-XMF-06531] c 14 N71-17575
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Hydrogen *fire blink* detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Method of cross-linking polyvinyl alcohol and other water *soluble resins*
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

HYDROGEN ATOMS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

HYDROGEN EMBRITTLEMENT
Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium *hydroxide to hydrazine*
[NASA-CASE-NPO-12122-1] c 24 N76-14203

HYDROGEN ENGINES
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526

HYDROGEN FUELS
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

HYDROGEN IONS
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

HYDROGEN OXYGEN FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

HYDROGEN PEROXIDE
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

HYDROGEN PRODUCTION
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

HYDROGENATION
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

HYDROLOGY
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

HYDROLYSIS
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

HYDROSTATIC PRESSURE
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

HYDROSTATICS
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

HYDROXIDES
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

HYDROXYL COMPOUNDS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

HYGIENE
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

HYGROMETERS
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

HYGROSCOPICITY
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

HYPERCUBE MULTIPROCESSORS
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769

HYPERFINE STRUCTURE
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

HYPERGOLIC ROCKET PROPELLANTS
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634

HYPERSONIC AIRCRAFT
Multistage aerospace craft --- perspective drawings of *conceptual design*
[NASA-CASE-XMF-02263] c 05 N74-10907

HYPERSONIC FLIGHT
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

HYPERSONIC FLOW
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYPERSONIC SPEED
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HYPERSONIC VEHICLES
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

HYPERSONIC WIND TUNNELS
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770

HYPERTHERMIA
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

HYPERVELOCITY GUNS
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

HYPERVELOCITY IMPACT
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

HYPERVELOCITY PROJECTILES
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

HYPERVELOCITY WIND TUNNELS
Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYSTERESIS
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

I

ICE
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149

IDENTIFYING
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

IGNITERS
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

IGNITION
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
Ignitability test method and apparatus
[NASA-CASE-LAR-14454-1] c 25 N91-32196

IGNITION LIMITS
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

IGNITION SYSTEMS
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

IGNITION TEMPERATURE
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

ILLUMINATING
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

ILLUMINATORS
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292

IMAGE ANALYSIS
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

IMAGE CONTRAST
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

IMAGE CONVERTERS
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

IMAGE CORRELATORS
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

IMAGE DISSECTOR TUBES
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

IMAGE ENHANCEMENT
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

IMAGE FILTERS
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

IMAGE INTENSIFIERS
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

IMAGE PROCESSING
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N91-23724
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925

IMAGE RECONSTRUCTION
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N91-23724
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

IMAGE RESOLUTION
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

IMAGE ROTATION
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

IMAGE TUBES
Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

IMAGERY
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

IMAGES
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

IMAGING RADAR
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

IMAGING TECHNIQUES
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N91-23724

IMIDES
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
Fire and heat resistant laminating resin based on *maleimido and citraconimido substituted* 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

IMINES
Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

IMMOBILIZATION
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704

IMPACT
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

IMPACT ACCELERATION
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146

IMPACT DAMAGE
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

IMPACT LOADS
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

IMPACT RESISTANCE
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

IMPACT STRENGTH
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

IMPACT TESTING MACHINES
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TESTS
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

IMPACT TOLERANCES
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420

IMPEDANCE
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544

IMPEDANCE MATCHING
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Reflectometer for receiver input impedance match *measurement* Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

IMPEDANCE MEASUREMENT
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

IMPELLERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

IMPLANTATION
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

IMPLANTED ELECTRODES (BIOLOGY)
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

IMPLOSIONS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

IMPREGNATING
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

IMPULSE GENERATORS
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

IMPURITIES
Method of making impurity-type semiconductor electrical *contacts* Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

IN-FLIGHT MONITORING
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION
Solar cell assembly --- for use under high intensity *illumination*
[NASA-CASE-LEW-11549-1] c 44 N77-19571

INCLINATION
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCOHERENT SCATTERING
Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

INDICATING INSTRUMENTS
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Apparatus for the determination of the existance or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical *spectrum*
[NASA-CASE-MFS-13130] c 10 N72-17173
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756

INDIUM ALLOYS
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

INDIUM COMPOUNDS
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

INDUCTANCE
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455

INDUCTION
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

INDUCTION HEATING
Induction furnace with perforated tungsten foil shielding *Patent*
[NASA-CASE-XLE-04026] c 14 N71-23267
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

INDUCTION MOTORS
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886

Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877

INDUCTORS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

INDUSTRIAL PLANTS
Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457

INDUSTRIAL WASTES
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

INERT ATMOSPHERE
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

INERTIA
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

INERTIAL CONFINEMENT FUSION
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

INERTIAL GUIDANCE
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

INERTIAL NAVIGATION
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483

INERTIAL PLATFORMS
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

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Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

INFLATABLE SPACECRAFT
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851

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[NASA-CASE-XLA-06095] c 01 N69-39981
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[NASA-CASE-XMS-00863] c 05 N70-34857
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

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Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131

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Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

INFRARED INSTRUMENTS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

INFRARED INTERFEROMETERS
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

INFRARED LASERS
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

INFRARED PHOTOMETRY
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

INFRARED RADIATION
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

INFRARED REFLECTION
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186

INFRARED SCANNERS
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475

INFRARED SPECTRA
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048

INFRARED SPECTROMETERS
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

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Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

INJECTION
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
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[NASA-CASE-XGS-06628] c 24 N71-16213
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455
Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200

INKS
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Nozzle diffuser for use with an open test section of a wind tunnel
[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149

INLET PRESSURE
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT
Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES
Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175

INSPECTION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562

INSTALLING
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT COMPENSATION
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES
Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
Improved sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N91-24426

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Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Process for lowering the dielectric constant of polyimides *using diamic acid additives*
[NASA-CASE-LAR-13902-1] c 27 N90-23546
Enhanced single layer multi-color or luminescent display with coactivators
[NASA-CASE-LAR-14181-1] c 76 N91-21911

INTAKE SYSTEMS
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

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Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

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Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

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[NASA-CASE-NPO-10230] c 09 N71-12520
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

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Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541

INTERCALATION
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

INTERFACES
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

INTERFACIAL TENSION
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

INTERFERENCE FIT
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112

INTERFEROMETERS
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871

INTERFEROMETRY
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic *aperture radar*
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

INTERLAYERS
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

INTERMEDIATE FREQUENCY AMPLIFIERS
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

INTERMETALLICS
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

INTERNAL COMBUSTION ENGINES
Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

INTERNAL PRESSURE
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415

INTERPLANETARY SPACE
Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

INTERPLANETARY SPACECRAFT
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075

INTERPLANETARY TRAJECTORIES
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

INTERPOLATION
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462

INTERPROCESSOR COMMUNICATION
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

INTERVALS
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

INTRACRANIAL PRESSURE
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

INTRAOCULAR PRESSURE
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

INTRAVEHICULAR ACTIVITY
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

INTRAVENOUS PROCEDURES
Bio-medical flow sensor --- intrvenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577

INTRUSION
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559

INVENTIONS
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
Improving the performance of blasting caps
[NASA-CASE-LAR-13832-1] c 28 N91-28444
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

INVERTED CONVERTERS (DC TO AC)
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

INVERTERS
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

INVESTIGATION
Method for investigating the formation of crystals in a *transparent material*
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835

IODINE
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

IODINE COMPOUNDS
Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

IODINE ISOTOPES
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

ION ACCELERATORS
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959

ION BEAMS
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION CHARGE
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

ION CONCENTRATION
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270

ION CURRENTS
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

ION CYCLOTRON RADIATION
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

ION DENSITY (CONCENTRATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

ION ENGINES
Ion thrustor cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thrustor
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

ION EXCHANGE MEMBRANE ELECTROLYTES
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ION EXCHANGE RESINS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076

ION EXCHANGING
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

ION EXTRACTION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

ION IMPLANTATION
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360

ION IRRADIATION
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179

ION MOTION
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

ION PLATING
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695

ION PROBES
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

ION PUMPS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

ION SOURCES
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813

ION TRAPS (INSTRUMENTATION)
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994

IONIC MOBILITY
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
IONIZATION
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
IONIZATION CHAMBERS
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
IONIZATION CROSS SECTIONS
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
IONIZATION GAGES
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
IONIZATION POTENTIALS
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
IONIZED GASES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Arc/gas electrode
[NASA-CASE-MFS-29766-1] c 33 N91-25335
IONIZERS
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
IONIZING RADIATION
High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
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[NASA-CASE-ARC-10812-1] c 07 N83-33884
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[NASA-CASE-NPO-10646] c 15 N71-28467
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[NASA-CASE-XNP-02278] c 15 N71-28951
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[NASA-CASE-GSC-13127-1] c 37 N91-17388
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[NASA-CASE-XGS-05003] c 09 N69-24318
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[NASA-CASE-ERC-10087-2] c 14 N72-31446
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[NASA-CASE-LEW-14345-4] c 23 N91-25185
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[NASA-CASE-NPO-14554-1] c 60 N81-27814
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

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[NASA-CASE-MSC-21555-1] c 37 N91-23492

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[NASA-CASE-XNP-08680] c 14 N71-22995
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[NASA-CASE-MSC-20622-1] c 25 N86-19413

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[NASA-CASE-ARC-10302-1] c 51 N74-15778
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[NASA-CASE-LAR-11649-1] c 51 N77-27677
Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
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[NASA-CASE-ARC-11422-1] c 35 N86-20751
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
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[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242

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Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Oxidation resistant slurry coating for carbon-based materials
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LAMBERT SURFACE
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

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[NASA-CASE-LAR-13554-1] c 02 N89-12551
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[NASA-CASE-NPO-10122] c 12 N71-17631
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[NASA-CASE-LAR-12261-1] c 02 N80-20224
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[NASA-CASE-LAR-13014-1] c 09 N85-21178
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[NASA-CASE-MFS-20408] c 18 N73-12604
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[NASA-CASE-LEW-12550-1] c 24 N77-19170
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[NASA-CASE-LEW-12118-1] c 24 N77-27188
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
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[NASA-CASE-LAR-12019-1] c 24 N78-17150
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[NASA-CASE-LEW-12582-1] c 76 N83-34796
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[NASA-CASE-LAR-13384-1] c 27 N86-20561
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Fire and heat resistant laminating resins based on malemeido and citraconimido substituted 1 -2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
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Full color hybrid display for aircraft simulators --- landing aids
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[NASA-CASE-XMF-03856] c 31 N70-34159
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Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
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[NASA-CASE-XLA-01583] c 02 N70-36825
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[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
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[NASA-CASE-XMF-01174] c 02 N70-41589
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[NASA-CASE-XLA-00493] c 11 N70-34786

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Mobile remote manipulator system for a tetrahedral truss
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[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
Synchronously deployable double fold beam and planar truss structure
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Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
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Rhomboid prism pair for rotating the plane of parallel light beams
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Dual laser optical system and method for studying fluid flow
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Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
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[NASA-CASE-NPO-16112-1] c 33 N86-19516
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[NASA-CASE-NPO-16271-1] c 35 N86-25753
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
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[NASA-CASE-MFS-28060-1] c 76 N87-25862
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[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
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[NASA-CASE-MFS-29291-1] c 37 N89-12868
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[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
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[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
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[NASA-CASE-MFS-28294-1] c 31 N91-14508
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[NASA-CASE-MSC-21509-1] c 74 N91-25840

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Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815

Quantum well, beam deflecting surface emitting lasers
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LASER CAVITIES

Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

LASER DOPPLER VELOCIMETERS

Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
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[NASA-CASE-LAR-12785-1] c 37 N84-16561
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[NASA-CASE-LAR-12968-1] c 60 N86-21154
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

LASER DRILLING

In-situ laser retorting of oil shale
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LASER FUSION

Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

LASER GUIDANCE

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LASER GYROSCOPES

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LASER HEATING

Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
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[NASA-CASE-MFS-25050-1] c 71 N81-15767

LASER INTERFEROMETRY

Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949

LASER MATERIALS

Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

LASER MODE LOCKING

Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816

LASER MODES

Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427

LASER OUTPUTS

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
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[NASA-CASE-MFS-20386] c 21 N71-19212
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
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[NASA-CASE-MFS-21244-1] c 36 N75-15028
Dually mode locked Nd:YAG laser
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Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
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High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Collimated beam manifold with the number of output *beams variable at a given output angle*
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
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Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
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Laser velocimeter for near-surface measurements
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Hanging drop crystal growth apparatus
[NASA-CASE-MFS-26061-1] c 76 N91-16815
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
Edge technique for measurement of laser frequency shifts including the Doppler shift
[NASA-CASE-GSC-13343-1] c 36 N91-28557

LASER PLASMAS

Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

LASER POWER BEAMING

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

LASER PUMPING

Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

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Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
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[NASA-CASE-MSC-20867-1] c 36 N88-24958

LASER RANGER/TRACKER

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

LASER SPECTROMETERS

Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

LASER SPECTROSCOPY

Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
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LASER WINDOWS

Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866

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Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed *feedback*
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848

Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392

LASING
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

LATCHES
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561

LATERAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LATERAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

LAUNCH ESCAPE SYSTEMS
Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

LAUNCHERS
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

LAUNCHING PADS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

LAUNCHING SITES
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

LAY-UP
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235

LAYERS
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

LEACHING
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465

LEAD (METAL)
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

LEAD SULFIDES
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271

LEAD TELLURIDES
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037

LEADING EDGE FLAPS
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

LEADING EDGES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

LEAKAGE
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Dual diaphragm tank with telltale drain
[NASA-CASE-MSC-21703-1] c 31 N91-25305

LEAST SQUARES METHOD
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341

LEG (ANATOMY)
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

LENSES
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865

LENTICULAR BODIES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
LEVEL (HORIZONTAL)
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
LEVEL (QUANTITY)
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
LEVELING
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
LEVERS
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493
LEVITATION
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578
LEVITATION MELTING
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
LIFE (DURABILITY)
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
LIFE DETECTORS
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
LIFE RAFTS
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
LIFE SUPPORT SYSTEMS
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
LIFT
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
LIFT DEVICES
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
LIFT DRAG RATIO
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
LIFTING BODIES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
LIFTING REENTRY VEHICLES
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
LIFTING ROTORS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
LIGANDS
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
LIGHT (VISIBLE RADIATION)
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
LIGHT AIRCRAFT
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
LIGHT BEAMS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Synchronous strobe apparatus for flow visualization
[NASA-CASE-LAR-14556-1] c 36 N91-25392
LIGHT EMISSION
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
LIGHT EMITTING DIODES
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
LIGHT GAS GUNS
Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
LIGHT MODULATION
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487
Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925
LIGHT SCATTERING
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890
LIGHT SCATTERING METERS
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
LIGHT SOURCES
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

LIGHT TRANSMISSION
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

LIGHT VALVES
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LIGHTING EQUIPMENT
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

LIGHTNING
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

LIMBS (ANATOMY)
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

LIMITER CIRCUITS
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333

LINE OF SIGHT
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

LINE SPECTRA
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

LINEAR ACCELERATORS
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962

LINEAR ARRAYS
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

LINEAR CIRCUITS
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR INTEGRATED CIRCUITS
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

LINEAR POLARIZATION
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488

LINEAR PROGRAMMING
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895

LINEAR RECEIVERS
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

LINEAR SYSTEMS
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

LINEARITY
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

LININGS
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586

LINKAGES
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

LIQUEFACTION
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608

LIQUID CHROMATOGRAPHY
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

LIQUID COOLING
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

LIQUID CRYSTALS
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

LIQUID FILLED SHELLS
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

LIQUID FLOW
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558

LIQUID HELIUM
Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

LIQUID HYDROGEN
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

LIQUID INJECTION
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

LIQUID LASERS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS
Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500

LIQUID METALS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

LIQUID NITROGEN
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

LIQUID PHASES
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289

LIQUID PROPELLANT ROCKET ENGINES
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LIQUID ROCKET PROPELLANTS
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073

LIQUID SLOSHING
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511

LITHIUM
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621

LITHIUM ALLOYS
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

LITHIUM COMPOUNDS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LOAD DISTRIBUTION (FORCES)
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

LOAD TESTING MACHINES
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

LOAD TESTS
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N91-14430

LOADING OPERATIONS
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N90-23712
Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
Load limiting, energy absorbing, lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N91-24216
Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655

LOCAL AREA NETWORKS
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

LOCATES SYSTEM
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

LOCKING
Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579

LOCKS (FASTENERS)
Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581

LOCOMOTION
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

LOGARITHMIC RECEIVERS
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS
Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209
A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Auto and hetero-associative memory using a 2-D optical logic gate
[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

LOGIC PROGRAMMING
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525

LONGERONS
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

LONGITUDINAL CONTROL
Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LONGITUDINAL STABILITY
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LOOK ANGLES (ELECTRONICS)
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

LOOP ANTENNAS
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202

Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
LOOPS
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
LOUDNESS
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
LOUVERS
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
LOW ASPECT RATIO
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
LOW CONDUCTIVITY
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
LOW COST
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
LOW CURRENTS
Low current linearization of magnetic amplifier for dc *transducer*
[NASA-CASE-NPO-14617-1] c 33 N81-24338
LOW DENSITY MATERIALS
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
LOW FREQUENCIES
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
LOW GRAVITY MANUFACTURING
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
LOW MOLECULAR WEIGHTS
Process for preparation of high-molecular- weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
LOW NOISE
Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
LOW PASS FILTERS
Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
LOW PRESSURE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
LOW SPEED
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
LOW TEMPERATURE
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494
LOW TEMPERATURE ENVIRONMENTS
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
LOW TEMPERATURE TESTS
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
LOW THRUST
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
LOW VACUUM
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
LOW VOLTAGE
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
LOWER BODY NEGATIVE PRESSURE
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
LUBRICANTS
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
LUBRICATING OILS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
LUBRICATION
Production of hollow components for rolling element *bearings by diffusion welding*
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
LUBRICATION SYSTEMS
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
LUGS
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
LUMINAIRES
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
LUMINANCE
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
LUMINESCENCE
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950
LUMINOSITY
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
LUMINOUS INTENSITY
Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
LUMPING
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
LUNAR BASES
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
LUNAR COMMUNICATION
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
LUNAR COMPOSITION
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
LUNAR EXPLORATION
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR GRAVITATION
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

LUNAR GRAVITY SIMULATOR
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LUNAR LANDING
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

LUNAR LOGISTICS
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

LUNAR ROCKS
Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

LUNAR SOIL
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011

LUNAR SURFACE VEHICLES
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

LUNGS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175

MACHINE LEARNING
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730

MACHINE TOOLS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
Precision alinement apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

MACHINERY
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

MACHINING
Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608

MAGNESIUM
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES
Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

MAGNET COILS
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578

MAGNETIC CHARGE DENSITY
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

MAGNETIC CONTROL
Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

MAGNETIC CORES
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490

MAGNETIC DIPOLES
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS
Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Electrostatic ion engine having a permanent magnetic *circuit Patent*
[NASA-CASE-XLE-01124] c 28 N71-14043
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866

MAGNETIC FILMS
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC FLUX
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal *gating coil and solenoidal output coil wound thereon* Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC FORMING
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865

MAGNETIC INDUCTION
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

MAGNETIC LENSES
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325

MAGNETIC MATERIALS
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

MAGNETIC MEASUREMENT
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390

MAGNETIC PERMEABILITY
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

MAGNETIC POLES
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406

MAGNETIC PUMPING
Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

MAGNETIC RECORDING
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MAGNETIC SIGNALS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467

MAGNETIC STORAGE
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Control apparatus for applying pulses of selectively *predetermined duration to a sequence of loads Patent*
[NASA-CASE-XGS-04224] c 10 N71-26418
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365

MAGNETIC SUSPENSION
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N91-21539
Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N91-21824

MAGNETIC SWITCHING
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

MAGNETIC TAPE TRANSPORTS
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479

MAGNETIC TAPES
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

MAGNETIC TRANSDUCERS
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397

MAGNETIZATION
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293

MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205

MAGNETOACOUSTIC WAVES
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170

MAGNETOACOUSTICS
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

MAGNETOHYDRODYNAMIC FLOW
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

MAGNETOHYDRODYNAMIC GENERATORS
Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573

MAGNETOMETERS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
Optically pumped resonance magnetometer for determining vectoral components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444

MAGNETOSTRICTION
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N91-23380

MAGNETRON SPUTTERING
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

MAGNETRONS
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

MAGNETS
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284

MAGNIFICATION
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N91-24878

MAGNITUDE
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAINTENANCE
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N91-21157

MALEATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

MALFUNCTIONS
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807

MAMMALS
A culture vessel with large perfusion area to volume ratio
[NASA-CASE-MSC-21662-1] c 51 N91-17531
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701

MAN MACHINE SYSTEMS
Compliant walker
[NASA-CASE-GSC-13348-2] c 52 N91-29714

MANDRELS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

MANEUVERABILITY
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

MANGANESE
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

MANIFOLDS
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

MANIPULATORS
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

MANNED ORBITAL LABORATORIES
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

MANNED SPACE FLIGHT
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492

MANNED SPACECRAFT
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

MANOMETERS
Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

MANUFACTURING
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258

Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

MAPPING
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N91-23724

MAPS
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

MASERS
Segmented superconducting magnet for a broadband *traveling wave maser Patent*
[NASA-CASE-XGS-10518] c 16 N71-28554
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Precise RF timing signal distribution to remote stations --- *fiber optics*
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MASKING
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

MASKS
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

MASS
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385

MASS BALANCE
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

MASS DISTRIBUTION
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

MASS FLOW
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

MASS SPECTROMETERS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and *monochrometer Patent*
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Apparatus and method for characterizing the *transmission efficiency of a mass spectrometer*
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

MASS SPECTROSCOPY
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

MASSIVELY PARALLEL PROCESSORS
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

MATERIAL ABSORPTION
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

MATERIALS
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

MATERIALS HANDLING
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

MATERIALS RECOVERY
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

MATERIALS SCIENCE
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486

MATERIALS TESTS
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

MATHEMATICAL LOGIC
Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

MATHEMATICAL MODELS
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N91-14741
Process for the homoepitaxial growth of single-crystal silicon carbide films on silicon carbide wafers
[NASA-CASE-LEW-15223-1] c 76 N91-26967

MATRICES (CIRCUITS)
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

MATRICES (MATHEMATICS)
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730

MATRIX MATERIALS
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199

MCLEOD GAGES
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

MEAN SQUARE VALUES
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

MEASURING INSTRUMENTS
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608

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Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426

Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543

MECHANICAL DRIVES
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
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[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
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[NASA-CASE-MSC-12116-1] c 15 N71-17648
Apparatus for the determination of the existance or non-existence of a bonding between two members Patent
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[NASA-CASE-XNP-03459] c 15 N71-21078
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[NASA-CASE-XGS-02631] c 03 N71-23006
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[NASA-CASE-XLE-08569] c 03 N71-23449
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[NASA-CASE-MSC-12357] c 15 N73-12489
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[NASA-CASE-NPO-13360-1] c 37 N75-25185
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[NASA-CASE-LEW-11573-1] c 26 N77-28265
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[NASA-CASE-LAR-13645-1] c 27 N91-28424
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[NASA-CASE-LAR-14096-1] c 31 N91-31476

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Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
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[NASA-CASE-XNP-04023] c 06 N71-28808
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[NASA-CASE-XLE-10910] c 18 N71-29040
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[NASA-CASE-MFS-22562-1] c 44 N76-14595
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[NASA-CASE-GSC-11786-1] c 24 N76-24363
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
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[NASA-CASE-HQN-10638-1] c 15 N73-30460
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[NASA-CASE-MFS-22649-1] c 37 N75-25186

Method and tool for machining a transverse slot about a bore
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[NASA-CASE-LEW-12493-2] c 24 N81-26179
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[NASA-CASE-MFS-28314-1] c 26 N91-14462

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Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

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Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
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[NASA-CASE-LAR-10836-1] c 26 N72-27784
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
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[NASA-CASE-LEW-12083-1] c 37 N78-13436
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[NASA-CASE-WLP-10055-1] c 35 N84-28015
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[NASA-CASE-ARC-11423-1] c 03 N84-33394
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
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[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

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[NASA-CASE-XLA-00137] c 15 N70-33180
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[NASA-CASE-XLA-01291] c 33 N70-36617
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[NASA-CASE-XLE-03432] c 33 N71-24145
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[NASA-CASE-GSC-11367-1] c 44 N74-19692
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[NASA-CASE-LAR-10208-1] c 35 N76-18400
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[NASA-CASE-LAR-12321-1] c 35 N82-24470
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[NASA-CASE-LAR-13832-1] c 28 N91-28444
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[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

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[NASA-CASE-NPO-11975-1] c 28 N74-33209

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Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
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[NASA-CASE-NPO-17809-1-CU] c 33 N91-27478

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[NASA-CASE-LEW-12083-1] c 37 N78-13436

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Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
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[NASA-CASE-XGS-02441] c 15 N70-41629
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[NASA-CASE-LEW-12941-1] c 26 N83-10170
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[NASA-CASE-XLE-02428] c 17 N70-33288
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
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[NASA-CASE-LEW-12441-2] c 34 N80-24573
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[NASA-CASE-LAR-12807-1] c 24 N84-11214
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[NASA-CASE-LEW-13828-1] c 24 N85-30027
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[NASA-CASE-MFS-21433] c 09 N73-20232
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[NASA-CASE-GSC-11425-1] c 76 N74-20329
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[NASA-CASE-MFS-22343-1] c 33 N74-34638
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[NASA-CASE-GSC-11425-2] c 76 N75-25730
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[NASA-CASE-LEW-12552-1] c 44 N78-25527
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[NASA-CASE-MFS-23541-1] c 76 N79-14906
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[NASA-CASE-NPO-13689-2] c 44 N81-29525
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[NASA-CASE-LEW-13401-2] c 44 N83-32177
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[NASA-CASE-GSC-12816-1] c 76 N86-20150
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[NASA-CASE-GSC-12782-1] c 33 N88-14271
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[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

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[NASA-CASE-ERC-10108] c 06 N72-21094
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[NASA-CASE-XLE-06461] c 17 N72-22530
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[NASA-CASE-MSC-12408-1] c 46 N74-13011
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[NASA-CASE-LEW-13131-1] c 44 N83-10494
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
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[NASA-CASE-NPO-15640-1] c 27 N84-22748
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[NASA-CASE-LEW-13324-2] c 24 N85-21266
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[NASA-CASE-LEW-14072-2] c 27 N86-32569
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[NASA-CASE-LEW-14072-3] c 27 N87-23736

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[NASA-CASE-XLE-02083] c 03 N69-39983
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[NASA-CASE-LEW-10219-1] c 18 N71-28729
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[NASA-CASE-NPO-11975-1] c 28 N74-33209

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[NASA-CASE-XLA-05906] c 31 N71-16221
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[NASA-CASE-XLE-00209] c 22 N73-32528
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
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[NASA-CASE-LEW-13598-1] c 35 N84-22930
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[NASA-CASE-MSC-20840-1] c 34 N88-29132
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[NASA-CASE-LAR-14096-1] c 31 N91-31476

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[NASA-CASE-LEW-10393-1] c 17 N71-15468
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
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[NASA-CASE-GSC-11163-1] c 15 N73-32360
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[NASA-CASE-NPO-15161-1] c 33 N84-16456

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[NASA-CASE-XLA-01782] c 14 N71-26136
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[NASA-CASE-LAR-10170-1] c 37 N74-11301
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[NASA-CASE-LAR-11211-1] c 37 N75-12326
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
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[NASA-CASE-LAR-12884-1] c 18 N84-33450

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[NASA-CASE-LAR-12862-1] c 27 N84-27886

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[NASA-CASE-XMF-01083] c 15 N71-22723

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Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

METAL STRIPS
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[NASA-CASE-XLE-00164] c 15 N70-36411

Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363

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[NASA-CASE-XLA-08645] c 15 N69-21465
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
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[NASA-CASE-MSC-12631-3] c 27 N81-14077
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[NASA-CASE-LEW-23169-2] c 26 N81-16209
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
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[NASA-CASE-LEW-14104-2] c 26 N88-14179
Metal etching composition
[NASA-CASE-MFS-29576-1] c 25 N91-15368
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298
Process for bonding elastomers to metal
[NASA-CASE-LAR-13645-1] c 27 N91-28424

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[NASA-CASE-NPO-14782-1] c 36 N82-28616
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[NASA-CASE-NPO-15021-1] c 36 N83-10417

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Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

METAL WORKING
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
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[NASA-CASE-XLE-06773] c 15 N71-23817
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
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[NASA-CASE-LEW-11694-2] c 37 N76-14461
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[NASA-CASE-GSC-12619-1] c 37 N84-12491

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[NASA-CASE-MFS-07369] c 15 N71-20443
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[NASA-CASE-XMF-01402] c 18 N71-21651
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[NASA-CASE-LAR-11726-1] c 37 N76-27568
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[NASA-CASE-LEW-12982-1] c 37 N81-19455
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

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[NASA-CASE-HQN-10274-1] c 27 N82-29451
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[NASA-CASE-HQN-10931-2] c 27 N82-29452

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[NASA-CASE-LEW-13639-1] c 26 N84-33555
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[NASA-CASE-GSC-12880-1] c 26 N86-32550
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[NASA-CASE-LEW-14959-1] c 44 N91-27614
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[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

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[NASA-CASE-XGS-06306] c 17 N71-16044

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[NASA-CASE-MFS-22411-1] c 37 N74-21058

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[NASA-CASE-XLE-04026] c 14 N71-23267
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[NASA-CASE-NPO-14474-1] c 26 N80-14229

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[NASA-CASE-XLE-00020] c 15 N70-33226
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[NASA-CASE-XLE-08511] c 18 N71-23710
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[NASA-CASE-XNP-05297] c 15 N71-23811
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
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[NASA-CASE-LAR-11563-1] c 37 N77-23482
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
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[NASA-CASE-MFS-25862-1] c 27 N85-20126
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[NASA-CASE-MSC-20622-1] c 25 N86-19413
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[NASA-CASE-ARC-11405-2] c 27 N86-19455
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
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[NASA-CASE-MFS-29576-1] c 25 N91-15368
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

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[NASA-CASE-NPO-13993-1] c 72 N79-13826
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[NASA-CASE-ARC-11503-1] c 35 N85-34374

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Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

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Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

METEORITIC DAMAGE
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

METEOROID PROTECTION
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

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Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

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Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE
Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118

METHYL ALCOHOL
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

METHYL COMPOUNDS
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561

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Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N90-21198

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[NASA-CASE-MSC-21737-1] c 61 N91-13911

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Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
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[NASA-CASE-MSC-12404-1] c 23 N73-13661
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

MICROANALYSIS
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

MICROBALANCES
Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

MICROBALLOONS
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method and apparatus for producing microshells
[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240
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Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic inoculating apparatus --- includes movable carraige, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
MICROCHANNELS
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
MICROCRACKS
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
MICROELECTRONICS
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
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[NASA-CASE-XFR-07172] c 05 N71-27234
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
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[NASA-CASE-MFS-256704-1] c 33 N84-22884
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947
MICROFIBERS
Small conductive particle sensor --- microfiber size determination
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MICROFILMS
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
MICROGRAVITY APPLICATIONS
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
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[NASA-CASE-MFS-28507-1] c 76 N91-23933
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Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
MICROMETEORITES
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
MICROMETEOROIDS
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
MICROMETERS
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
MICROMINIATURIZATION
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
MICROORGANISMS
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
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[NASA-CASE-LAR-12709-1] c 35 N82-28604
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[NASA-CASE-NPO-16203-1] c 23 N85-35227
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
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[NASA-CASE-XNP-04816] c 06 N69-39936
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[NASA-CASE-LAR-12785-1] c 37 N84-16561
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[NASA-CASE-MSC-12223-1] c 07 N71-26181
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[NASA-CASE-XFR-07172] c 05 N71-27234
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
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[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
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Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887
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Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
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[NASA-CASE-LAR-10184] c 14 N72-22445
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[NASA-CASE-ARC-10468-1] c 14 N73-33361
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[NASA-CASE-NPO-16299-1] c 33 N87-14594
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[NASA-CASE-MFS-28485-1] c 35 N91-15519
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[NASA-CASE-MFS-28420-1] c 37 N91-21545
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Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
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[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
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Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
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[NASA-CASE-LEW-13899-1] c 31 N87-21160
High temperature electric arc furnace and method
[NASA-CASE-MFS-28281-1] c 09 N90-23415
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[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940
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[NASA-CASE-MFS-28013-2] c 89 N91-14096
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[NASA-CASE-GSC-10709-1] c 28 N71-25213
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[NASA-CASE-GSC-10640-1] c 28 N72-18766
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Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
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Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
MICROWAVE CIRCUITS
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516

Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

MICROWAVE COUPLING
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MICROWAVE EQUIPMENT
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

MICROWAVE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195

MICROWAVE FREQUENCIES
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013

MICROWAVE OSCILLATORS
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

MICROWAVE RADIOMETERS
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

MICROWAVE REFLECTOMETERS
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822

MICROWAVE RESONANCE
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137

MICROWAVE SCATTERING
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

MICROWAVE SENSORS
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

MICROWAVE SWITCHING
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

MICROWAVE TRANSMISSION
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

MICROWAVE TUBES
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208

MICROWAVES
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Microwave field effect transistor
[NASA-CASE-GSC-12442-2] c 33 N90-20282

MIDAIR COLLISIONS
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

MILLIMETER WAVES
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552

MILLING (MACHINING)
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058

MILLING MACHINES
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

MIMD (COMPUTERS)
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268

MINERAL DEPOSITS
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509

MINERAL METABOLISM
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

MINES (EXCAVATIONS)
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963

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Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

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Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520

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Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
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[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

MINORITY CARRIERS
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

MIRRORS
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923

MIS (SEMICONDUCTORS)
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

MISALIGNMENT
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
MISSILE CONTROL
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140
MISSILE LAUNCHERS
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
MISSILE STRUCTURES
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
MISSILES
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
MITOSIS
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
MIXERS
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
MIXING
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
MIXING CIRCUITS
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
MIXTURES
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307
MOBILE COMMUNICATION SYSTEMS
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
MOBILITY
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
MODE TRANSFORMERS
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
MODEMS
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
MODES (STANDING WAVES)
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
MODULATION
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
MODULATORS
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889
MODULES
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
MODULUS OF ELASTICITY
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
MOIRE EFFECTS
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922
MOISTURE
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
MOISTURE CONTENT
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
MOISTURE METERS
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
MOISTURE RESISTANCE
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
MOLDING MATERIALS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
MOLDS
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Method of making an apertured casting --- using duplicate mold
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MOLECULAR BEAM EPITAXY
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
MBE growth technology for high quality strained III-V layers
[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
MOLECULAR BEAMS
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
MOLECULAR CHAINS
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
MOLECULAR GASES
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
MOLECULAR PUMPS
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
MOLECULAR RELAXATION
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
MOLECULAR ROTATION
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
MOLECULAR SPECTRA
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
MOLECULAR SPECTROSCOPY
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
MOLECULAR STRUCTURE
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
MOLECULAR WEIGHT
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Polyimidazoles via aromatic nucleophilic displacement
[NASA-CASE-LAR-14145-1] c 27 N90-26954
Aromatic polyimides containing a dimethylsilane-linked dianhydride
[NASA-CASE-LAR-14198-1] c 27 N90-26956
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

MOLECULES
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

MOLTEN SALT ELECTROLYTES
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N91-14536

MOLYBDENUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MOMENTUM TRANSFER
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

MONATOMIC GASES
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Nonintrusive method and apparatus for monitoring the cure of polymeric materials
[NASA-CASE-LAR-13465-1] c 27 N90-23544
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N91-31120
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

MONOCHROMATIC RADIATION
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

MONOCHROMATORS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochrometer Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

MONOMERS
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

MONOPOLE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MONOPULSE ANTENNAS
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SIMULATORS
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716

MOUNTING
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

MOVING TARGET INDICATORS
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULTIBEAM ANTENNAS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

MULTICHANNEL COMMUNICATION
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
Composite flexible blanket insulation
[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

MULTIPACTOR DISCHARGES
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

MULTIPLIERS
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040

MULTIPROCESSING (COMPUTERS)
Fault tolerant hypercube computer system architecture
[NASA-CASE-NPO-16859-1-CU] c 60 N90-21527
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

MULTISPECTRAL BAND SCANNERS
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

MULTISPECTRAL PHOTOGRAPHY
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTISTATIC RADAR
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

MULTIVIBRATORS
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

MUSCULAR FUNCTION
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MUSCULOSKELETAL SYSTEM
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

MYOCARDIUM
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MYOPIA
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

N

N-TYPE SEMICONDUCTORS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

NACELLES
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

NAPHTHALENE
Multi-colored layers for visualizing aerodynamic flow effects
[NASA-CASE-LAR-13742-1] c 02 N91-16999

NARROWBAND
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

NASA PROGRAMS
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
NAVIGATION
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
NAVIGATION AIDS
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
NAVIGATION INSTRUMENTS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
NAVIGATION SATELLITES
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
NEAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
NEGATIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
NEGATIVE IONS
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
NEODYMIUM LASERS
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
NERVES
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
NETWORK SYNTHESIS
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
NEURAL NETS
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841
An accelerated training method for back propagation networks
[NASA-CASE-MSC-21625-1] c 53 N91-28730
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
NEUROGLIA
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
NEUROLOGY
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
NEURONS
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
NEUTRALIZERS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
NEUTRON EMISSION
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
NICKEL
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
NICKEL ALLOYS
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Nickel bas alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
NICKEL CADMIUM BATTERIES
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Method and apparatus for conditioning of *nickel-cadmium batteries*
[NASA-CASE-MFS-23270-1] c 44 N78-25531
NICKEL COATINGS
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
NICKEL COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
NICKEL HYDROGEN BATTERIES
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
NICKEL PLATE
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
NICKEL ZINC BATTERIES
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
NIOBIUM
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
NIOBIUM COMPOUNDS
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
NITINOL ALLOYS
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727
NITRAMINE PROPELLANTS
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
NITRATION
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475
NITRIC OXIDE
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
NITRIDES
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Method of producing high T(subc) superconducting NBN *films*
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
NITRIDING
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
NITRILES
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
NITRO COMPOUNDS
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
NITROAMINES
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
NITROGEN
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
NITROGEN COMPOUNDS
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
NITROGEN OXIDES
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Combuster --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
NITROGEN TETROXIDE
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
NITROGENATION
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
NITROGUANIDINE
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
NOBLE METALS
GaAs Schottky barrier photo-responsive device and *method of fabrication*
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
NODES (STANDING WAVES)
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
NOISE GENERATORS
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
NOISE METERS
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
NOISE REDUCTION
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

Cassegrainian antenna subflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N91-27913

NOISE TEMPERATURE
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

NOISE THRESHOLD
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696

NONADIABATIC CONDITIONS
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

NONDESTRUCTIVE TESTS
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
Magneto acoustic emission apparatus for testing materials for embrittlement
[NASA-CASE-LAR-13817-1] c 26 N90-21170
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167

NONEQUILIBRIUM CONDITIONS
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

NONEQUILIBRIUM PLASMAS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

NONEQUILIBRIUM RADIATION
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

NONFLAMMABLE MATERIALS
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

NONLINEAR FEEDBACK
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

NONLINEAR FILTERS
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

NONLINEAR OPTICS
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372

NONLINEAR SYSTEMS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

NONLINEARITY
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N91-24878

NORMAL DENSITY FUNCTIONS
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

NOSE CONES
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

NOSE WHEELS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

NOSES (FOREBODIES)
Rotatable non-circular forebody flow controller
[NASA-CASE-LAR-14212-1-CU] c 05 N91-31140

NOTCH STRENGTH
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

NOTCH TESTS
Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N91-14563
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508

NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070

NOZZLE GEOMETRY
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[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
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[NASA-CASE-NPO-14542-1] c 25 N82-23282
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Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Stacked array of omnidirectional antennas
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[NASA-CASE-XMS-04390] c 31 N70-41871
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[NASA-CASE-XMF-02433] c 14 N71-10616
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[NASA-CASE-GSC-10814-1] c 03 N73-20039
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Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
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Automatic level control circuit
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Phase detector for three-phase power factor controller
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Recorder/processor apparatus --- for optical data processing
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[NASA-CASE-NPO-14525-1] c 32 N79-19195
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Real-time multiple-look synthetic aperture radar processor for spacecraft applications
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Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
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Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
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[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

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[NASA-CASE-XNP-08840] c 23 N71-16365
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Method of coating solar cell with borosilicate glass and resultant product
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Borescope with variable angle scope
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Cyclically operable optical shutter
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[NASA-CASE-LAR-10726-1] c 14 N73-20475
Multiple pass reimaging optical system
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Method and apparatus for optically monitoring the angular position of a rotating mirror
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Single reflector interference spectrometer and drive system therefor
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Optical alignment device
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Optical instrument employing reticle having preselected visual response pattern formed thereon
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[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
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[NASA-CASE-ARC-11311-1] c 74 N83-13978
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[NASA-CASE-GSC-12683-1] c 74 N83-36898
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
High-temperature, high-pressure optical cell
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Apparatus for precision focusing and positioning of a beam waist on a target
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Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
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[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
Radiation sensitive area detection device and method
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High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
System for producing chroma signals
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Optical conversion method --- for spacecraft television
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Multispectral linear array multiband selection device
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Method and apparatus for making an optical element having a dielectric film
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[NASA-CASE-NPO-14258-1] c 35 N81-33448
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

OPTICAL HETERODYNING
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

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Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

OPTICAL MEASUREMENT
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Optical multiple sample vacuum integrating sphere
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OPTICAL MEASURING INSTRUMENTS
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[NASA-CASE-MFS-20642] c 14 N72-21407
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Vibration-free Raman Doppler velocimeter
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OPTICAL MEMORY (DATA STORAGE)
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

Optoelectronic associative memory
[NASA-CASE-NPO-18278-1-CU] c 74 N91-32925

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[NASA-CASE-LAR-12592-1] c 36 N82-13415
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase *conjugate mirror*
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

OPTICAL POLARIZATION
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

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[NASA-CASE-XLE-00503] c 14 N70-34818
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[NASA-CASE-ERC-10011] c 07 N71-29065
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[NASA-CASE-NPO-11311] c 14 N72-25414
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
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[NASA-CASE-GSC-11188-3] c 74 N74-20008
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
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[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890

OPTICAL PUMPING
Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
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[NASA-CASE-GSC-12592-1] c 36 N84-28065

OPTICAL PYROMETERS
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[NASA-CASE-XLA-00062] c 14 N70-33254

OPTICAL RADAR
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

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[NASA-CASE-XMS-01994-1] c 14 N72-17326
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[NASA-CASE-MFS-20074] c 16 N71-15565
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[NASA-CASE-XGS-04173] c 19 N71-26674
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[NASA-CASE-GSC-11214-1] c 06 N73-13128
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[NASA-CASE-XGS-04879] c 14 N71-20428
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[NASA-CASE-HQN-10844-1] c 36 N75-19653

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[NASA-CASE-XGS-02401] c 14 N69-27485
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[NASA-CASE-XMF-00462] c 14 N70-34298
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[NASA-CASE-NPO-11106] c 14 N70-34697
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[NASA-CASE-XGS-00809] c 21 N70-35427
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[NASA-CASE-NPO-11002] c 14 N72-22441
Spacecraft attitude sensor
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[NASA-CASE-NPO-14093-1] c 35 N80-20563
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Optical tracker having overlapping reticles on parallel axes Patent
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[NASA-CASE-MFS-23999-1] c 44 N81-24520
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[NASA-CASE-NPO-15432-1] c 32 N85-29117
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[NASA-CASE-MFS-28185-1] c 37 N88-23979
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[NASA-CASE-MSC-12391] c 30 N73-12884

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[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

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Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Substituted 1,1,1-triaryl-2,2,2-trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-3] c 23 N91-17141

ORGANIC COMPOUNDS
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
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[NASA-CASE-XNP-03250] c 06 N71-23500
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Automated system for identifying traces of organic *chemical compounds in aqueous solutions*
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
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[NASA-CASE-MSC-16497-1] c 25 N82-12166
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[NASA-CASE-LAR-12723-2] c 27 N84-22746
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
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[NASA-CASE-ARC-11425-2] c 23 N87-28605

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ORGANIC SILICON COMPOUNDS
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
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Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
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Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
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[NASA-CASE-XNP-04023] c 06 N71-28808
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
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[NASA-CASE-HQN-10364] c 06 N71-27363
Thiophenyl ether disiloxanes and trisiloxanes useful as *lubricant fluids*
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Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727
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[NASA-CASE-XMS-05894-1] c 15 N69-21924
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[NASA-CASE-ARC-11631-1] c 34 N87-21255
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[NASA-CASE-MSC-21549-1] c 34 N91-27504
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[NASA-CASE-GSC-12770-1] c 25 N83-29324
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Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
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Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
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[NASA-CASE-GSC-12082-1] c 54 N76-22914
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[NASA-CASE-GSC-12082-2] c 52 N81-25661
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[NASA-CASE-XLE-00409] c 28 N71-15658
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[NASA-CASE-XLE-05689] c 28 N71-15659
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[NASA-CASE-LAR-10193-1] c 15 N71-27146
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[NASA-CASE-XLA-09480] c 11 N71-33612
Apparatus for damping operator induced oscillations of a controlled system --- flight control
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[NASA-CASE-GSC-10041-1] c 10 N71-19418
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Signal ratio system utilizing voltage controlled oscillators Patent
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[NASA-CASE-LEW-10345-1] c 10 N71-25899
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[NASA-CASE-XLA-03893] c 10 N71-27271
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[NASA-CASE-XNP-03916] c 09 N71-28810
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[NASA-CASE-NPO-10760] c 09 N72-25254
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[NASA-CASE-NPO-11962-1] c 33 N74-10194
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[NASA-CASE-GSC-11513-1] c 33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
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[NASA-CASE-MFS-23181-1] c 33 N77-17351
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[NASA-CASE-NPO-13673-1] c 71 N77-26919
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Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
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[NASA-CASE-GSC-13173-1] c 33 N90-23635
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[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
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[NASA-CASE-NPO-10251] c 10 N71-27365
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
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[NASA-CASE-LAR-10319-1] c 14 N73-32322
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
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[NASA-CASE-LAR-11207-1] c 35 N75-19613
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Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
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[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
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Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
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Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
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Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
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Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
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[NASA-CASE-XAC-08981] c 09 N69-39897
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
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[NASA-CASE-NPO-13872-1] c 33 N78-10377
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Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
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[NASA-CASE-ARC-11267-2] c 23 N82-28353
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Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
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[NASA-CASE-NPO-13464-2] c 44 N76-29704
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
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[NASA-CASE-MSC-14903-2] c 27 N80-10358
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[NASA-CASE-LEW-13639-1] c 26 N84-33555
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[NASA-CASE-LAR-14194-1] c 24 N90-15148
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[NASA-CASE-LAR-14155-2-SB] c 25 N91-21270
Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
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Nickel-base alloy containing Mo-W-Al-Cr- Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
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[NASA-CASE-LEW-11696-2] c 26 N75-19408
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
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[NASA-CASE-LEW-11930-4] c 24 N79-17916
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-LEW-13864-1] c 27 N86-19457
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Nickel base coating alloy
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[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
High temperature insulation barrier composite
[NASA-CASE-MFS-29241-1] c 24 N90-23480
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Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

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Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
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[NASA-CASE-LEW-14072-1] c 27 N86-19458
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

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Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423

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Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Device and method for frictionally testing materials for *ignitability*
[NASA-CASE-MSC-20622-1] c 25 N86-19413

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Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

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Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
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[NASA-CASE-LAR-10668-1] c 06 N73-16106
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[NASA-CASE-MSC-12408-1] c 46 N74-13011
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[NASA-CASE-MFS-20486-2] c 27 N74-17283
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Device for quickly sensing the amount of O2 in a combustion product gas
[NASA-CASE-LAR-13816-1] c 35 N90-22025
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271

OXYGEN ATOMS
Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

OXYGEN CONSUMPTION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

OXYGEN FLUORIDES
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228

OXYGEN ISOTOPES
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154

OXYGEN METABOLISM
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

OXYGEN PLASMA
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052

OXYGEN REGULATORS
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

OXYGEN SUPPLY EQUIPMENT
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338

OZONE
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514

P

P-I-N JUNCTIONS
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

P-N JUNCTIONS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528

P-TYPE SEMICONDUCTORS
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

PACKAGES
Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085

PACKAGING
Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482

PACKET TRANSMISSION
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

PACKING DENSITY
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

PACKINGS (SEALS)
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562

PAINTS
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

PALLADIUM
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167

PANORAMIC SCANNING
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

PAPER (MATERIAL)
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747

PAPERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

PARA HYDROGEN
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

PARABOLIC ANTENNAS
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
PARABOLIC REFLECTORS
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
PARABOLOID MIRRORS
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
PARACHUTE DESCENT
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
PARACHUTE FABRICS
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
PARACHUTES
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
PARAGLIDERS
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
PARALLAX
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
PARALLEL COMPUTERS
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
PARALLEL PLATES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
PARALLEL PROCESSING (COMPUTERS)
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N91-14769
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
Analog hardware for learning neural networks
[NASA-CASE-NPO-17664-1-CU] c 62 N91-32852
PARAMETER IDENTIFICATION
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
PARAMETRIC AMPLIFIERS
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
PARAMETRIC FREQUENCY CONVERTERS
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
PARAWINGS
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
PARKING
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
PARTIAL PRESSURE
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
PARTICLE ACCELERATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
PARTICLE ACCELERATOR TARGETS
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
PARTICLE BEAMS
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
PARTICLE COLLISIONS
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
PARTICLE DENSITY (CONCENTRATION)
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
PARTICLE EMISSION
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
PARTICLE ENERGY
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
PARTICLE INTERACTIONS
Surface modification using low energy ground state ion beams
[NASA-CASE-NPO-17498-1-CU] c 72 N91-14813
PARTICLE MASS
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
PARTICLE MOTION
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135
PARTICLE PRODUCTION
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
PARTICLE SIZE DISTRIBUTION
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858
PARTICLE TRACKS
Detection of multiple-bit errors from single-ion tracks in integrated circuits
[NASA-CASE-NPO-18075-1-CU] c 33 N91-13622
PARTICLE TRAJECTORIES
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
PARTICLES
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
PARTICULATE SAMPLING
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340
Sample holder support for microscopes
[NASA-CASE-MFS-28420-1] c 37 N91-21545

PARTICULATES
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
High velocity gas particulate sampling system
[NASA-CASE-MSC-21729-1] c 34 N91-17340
PASSAGEWAYS
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
PASSENGERS
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
PASSIVE SATELLITES
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
PASTES
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
PATENT APPLICATIONS
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492
PATENTS
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
PATIENTS
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
Rapidly quantifying the relative distention of a human bladder
[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
PATTERN RECOGNITION
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
General method of pattern classification using the two-domain theory
[NASA-CASE-MSC-21737-1] c 61 N91-13911
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
PATTERN REGISTRATION
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976
PAYLOAD DELIVERY (STS)
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
PAYLOAD INTEGRATION
Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581
PAYLOAD RETRIEVAL (STS)
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
PAYLOADS
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
PCM TELEMETRY
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
PEELING
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
PEENING
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
PELLETS
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
PELTIER EFFECTS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
PELVIS
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
PENETRANTS
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Metal etching composition
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[NASA-CASE-XGS-01590] c 07 N71-12392
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
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[NASA-CASE-MSC-17832-1] c 33 N74-14956
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[NASA-CASE-GSC-11829-1] c 35 N75-27331
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[NASA-CASE-MFS-25535-2] c 33 N84-22885
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Method and apparatus for measuring frequency and phase difference
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Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024
PHASE DEVIATION
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
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[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
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[NASA-CASE-XNP-01107] c 10 N71-28859
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[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
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Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
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Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
Video sync processor Patent
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Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
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[NASA-CASE-NPO-11282] c 10 N73-16205
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
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[NASA-CASE-NPO-11905-1] c 33 N74-12887
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
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[NASA-CASE-GSC-11127-1] c 09 N75-24758
Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
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[NASA-CASE-GSC-11868-1] c 17 N76-22245
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
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PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
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[NASA-CASE-LAR-13387-1] c 74 N88-25302
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
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Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
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[NASA-CASE-XNP-05382] c 10 N71-23544
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[NASA-CASE-NPO-10302] c 10 N71-26142
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[NASA-CASE-MSC-13201-1] c 07 N71-28429
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
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[NASA-CASE-NPO-13103-1] c 32 N74-20811
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
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[NASA-CASE-NPO-13909-1] c 33 N78-25319
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[NASA-CASE-GSC-12137-1] c 33 N78-32338
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[NASA-CASE-LEW-12780-1] c 20 N79-20179
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
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[NASA-CASE-NPO-15805-1] c 74 N84-28590
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Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
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[NASA-CASE-MSC-18808-1] c 32 N90-20280
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[NASA-CASE-XAC-10608-1] c 09 N71-12517
Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
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Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Unbalanced quadriphase demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331

Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
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[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

PHASE SWITCHING INTERFEROMETERS
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

PHASE TRANSFORMATIONS
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159

PHASE VELOCITY
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

PHASED ARRAYS
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
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[NASA-CASE-MSC-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
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[NASA-CASE-MSC-18532-1] c 32 N82-27558
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[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551

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Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909

PHENOLS
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
Method and device for the detection of phenol and related compounds --- in an electrochemical cell
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Bis(4-(3,4-dimethylenepyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
Bis (4-(3,4-dimethylene-pyrrolidyl)-phenyl) methane
[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237

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Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234

PHOSPHATES
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047

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Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

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Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
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[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOSPHONITRILES
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

PHOSPHORIC ACID
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[NASA-CASE-MFS-29576-1] c 25 N91-15368

PHOSPHORS
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

PHOSPHORUS
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
Some 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-dinitro-benzenes
[NASA-CASE-ARC-11425-3] c 23 N90-23475

PHOSPHORUS COMPOUNDS
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

PHOSPHORUS POLYMERS
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOTOABSORPTION
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOCATHODES
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

PHOTOCHEMICAL REACTIONS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694

PHOTOCHROMISM
All-optical photochromic spatial light modulators based on photoinduced electron transfer in rigid matrices
[NASA-CASE-NPO-17612-1-CU] c 74 N90-27487

PHOTOCONDUCTIVE CELLS
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

PHOTOCONDUCTIVITY
Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

PHOTOCONDUCTORS
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

PHOTODIODES
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

PHOTODISSOCIATION
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

PHOTOELECTRIC CELLS
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

PHOTOELECTRIC EFFECT
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

PHOTOELECTRIC EMISSION
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

PHOTOELECTRIC MATERIALS
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

PHOTOELECTRICITY
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

PHOTOELECTROCHEMICAL DEVICES
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHOTOELECTRON SPECTROSCOPY
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

PHOTOGRAPHIC EMULSIONS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC EQUIPMENT
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886

PHOTOGRAPHIC FILM
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096

PHOTOGRAPHIC MEASUREMENT
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

PHOTOGRAPHIC PROCESSING
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

PHOTOGRAPHIC PROCESSING EQUIPMENT
Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

PHOTOGRAPHIC RECORDING
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

PHOTOGRAPHY
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

PHOTOIONIZATION
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

PHOTOLYSIS
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

PHOTOMAPPING
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

PHOTOMASKS
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209

PHOTOMECHANICAL EFFECT
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOMETERS
Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Alternating gradient photodetector
[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926

PHOTOMICROGRAPHY
Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

PHOTOMULTIPLIER TUBES
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

PHOTON BEAMS
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255

PHOTON-ELECTRON INTERACTION
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

PHOTONS
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

PHOTOSENSITIVITY
Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

PHOTOTHERMAL CONVERSION
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

PHOTOTRANSISTORS
Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
High-gain AlGaAs/GaAs double heterojunction Darlington phototransistors for optical neural networks
[NASA-CASE-NPO-18101-1-CU] c 74 N91-25841

PHOTOTROPISM
Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

PHOTOVISCOELASTICITY
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

PHOTOVOLTAIC CELLS
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802

PHOTOVOLTAIC CONVERSION
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

PHOTOVOLTAIC EFFECT
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441

PHTHALATES
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

PHTHALOCYANIN
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884

Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2) 4,4',4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

PHYSICAL EXERCISE
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785

PHYSICAL PROPERTIES
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

PHYSIOLOGICAL EFFECTS
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

PHYSIOLOGICAL TESTS
Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

PHYSIOLOGY
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

PHYTOTRONS
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933

PIERCING
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

PIEZOELECTRIC CRYSTALS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

PIEZOELECTRIC GAGES
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

PIEZOELECTRIC TRANSDUCERS
Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
Microbalance including crystal oscillators for measuring contaminates in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671

PIEZOELECTRICITY
Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Piezoelectrostatic generator
[NASA-CASE-MFS-28298-1] c 76 N91-14872

PIEZORESISTIVE TRANSDUCERS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

PIGMENTS
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

PILOT TRAINING
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

PILOTS (PERSONNEL)
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

PINCH EFFECT
Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

PINHOLE CAMERAS
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

PINS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

PINTLES
Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

PIPE FLOW
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N91-15423

PIPELINES
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

PIPELINING (COMPUTERS)
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Highly parallel computer architecture for robotic computation
[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805

PIPES (TUBES)
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
Sealed separable connection Patent
[NASA-CASE-NPO-10064] c 15 N71-17693
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Quick connect coupling
[NASA-CASE-MSC-21539-1] c 37 N91-14610

PISTON ENGINES
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

PISTONS
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

PITCH (INCLINATION)
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

PITCHING MOMENTS
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

PIVOTS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

PIXELS
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Programmable remapper for image processing
[NASA-CASE-MSC-21350-1] c 60 N91-23724

PLANAR STRUCTURES
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Dual cathode system for electron beam instruments
[NASA-CASE-NPO-16878-1-CU] c 35 N90-20351

PLANE WAVES
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

PLANETARY ATMOSPHERES
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

PLANETARY GRAVITATION
Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

PLANETARY LANDING
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

PLANETARY MAPPING
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANETARY ORBITS
Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296

PLANETARY RADIATION
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

PLANETARY SURFACES
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

PLANTS (BOTANY)
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803

PLASMA ACCELERATION
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

PLASMA ACCELERATORS
Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PLASMA ARC WELDING
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131

PLASMA CONTROL
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA CYLINDERS
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519

PLASMA DENSITY
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

PLASMA DIAGNOSTICS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169

PLASMA DYNAMICS
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625

PLASMA ENGINES
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

PLASMA GENERATORS
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
Crossed-field MHD plasma generator/ accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688
Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c 75 N75-13625
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875

PLASMA JETS
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

PLASMA LAYERS
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

PLASMA RADIATION
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
Process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N91-17145
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N91-25875
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376

PLASMA TEMPERATURE
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)
Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073

Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-1] c 27 N91-25298

PLASMONS
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

PLASTIC DEFORMATION
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC TAPES
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS
Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES
Pressurized bellows flat contact heat exchanger interface
[NASA-CASE-MSC-21271-1] c 34 N90-21999
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540

PLATES (STRUCTURAL MEMBERS)
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

PLATFORMS
Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

PLATING
Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

PLATINUM
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368

PLATINUM ALLOYS
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338

PLAYBACKS
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

PLENUM CHAMBERS
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

PLOTTERS
Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Method of producing a plug type heat flux gauge
[NASA-CASE-LEW-14967-2] c 35 N91-23460

PLUMES
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858

PLUNGERS
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577

PNEUMATIC CONTROL
Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

POINT SOURCES
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Balanced bridge feedback control system
[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951

POINTS (MATHEMATICS)
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARIMETRY
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594

POLARITY
Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
Method and apparatus for determining return stroke polarity of distant lightning
[NASA-CASE-MFS-26102-1-CU] c 47 N91-15661

POLARIZATION (WAVES)
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219

Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
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[NASA-CASE-NPO-14362-1] c 32 N80-16261
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Visible and infrared polarization ratio spectroreflectometer
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[NASA-CASE-GSC-12225-1] c 74 N79-14891
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[NASA-CASE-MFS-25750-1] c 32 N86-20647
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[NASA-CASE-XGS-02884] c 15 N71-22705
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[NASA-CASE-GSC-12348-1] c 74 N80-24149

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[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
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[NASA-CASE-LEW-12990-1] c 07 N81-29129
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[NASA-CASE-NPO-15426-1] c 35 N84-17555
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[NASA-CASE-LAR-11675-1] c 45 N76-17656
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[NASA-CASE-LAR-11405-1] c 45 N76-31714
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[NASA-CASE-LAR-12308-1] c 35 N81-29407

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Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
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[NASA-CASE-LAR-12723-2] c 27 N84-22746
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[NASA-CASE-MSC-20261-1] c 54 N84-28484
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[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
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[NASA-CASE-ARC-11533-1] c 27 N87-23751
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POLYBENZIMIDAZOLE
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

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New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
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[NASA-CASE-LAR-13292-1] c 27 N86-24841

POLYCRYSTALS
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
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[NASA-CASE-GSC-12022-2] c 44 N78-24609
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[NASA-CASE-MFS-28090-1] c 27 N87-21111

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Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
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[NASA-CASE-NPO-13205-1] c 31 N74-32917
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[NASA-CASE-NPO-16103-1] c 27 N85-29043
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[NASA-CASE-LAR-13316-1] c 27 N86-27450
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[NASA-CASE-MFS-10507] c 06 N73-30101
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[NASA-CASE-MFS-11492] c 06 N73-30102
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
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[NASA-CASE-LAR-13447-1] c 27 N88-18725

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[NASA-CASE-LAR-11397-1] c 27 N75-29263
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[NASA-CASE-LAR-12181-1] c 27 N78-17205
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
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[NASA-CASE-LEW-12933-1] c 27 N81-19296
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[NASA-CASE-LAR-12642-1] c 27 N81-29229
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[NASA-CASE-LEW-12876-2] c 27 N83-29392
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
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[NASA-CASE-LEW-13770-4] c 27 N85-21351
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[NASA-CASE-LEW-13770-2] c 25 N85-28982
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[NASA-CASE-LEW-13770-6] c 25 N85-30039
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
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[NASA-CASE-LAR-13925-1] c 27 N89-25334
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566
Addition polyimides with enhanced processability
[NASA-CASE-LEW-15043-1] c 27 N91-32230

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[NASA-CASE-LEW-11325-1] c 06 N73-27980
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
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[NASA-CASE-LAR-11828-1] c 27 N78-32261
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[NASA-CASE-ARC-11170-1] c 27 N79-11215
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[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Method for preparing addition type polyimide prepregs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
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[NASA-CASE-LAR-12640-1] c 27 N82-11206
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[NASA-CASE-LAR-12775-1] c 27 N83-28240
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
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[NASA-CASE-LAR-12858-2] c 27 N85-20124
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[NASA-CASE-LAR-12775-2] c 27 N85-21349
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
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[NASA-CASE-LAR-13292-1] c 27 N86-24841
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
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[NASA-CASE-LEW-14072-3] c 27 N87-23736
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[NASA-CASE-LAR-13633-1] c 27 N87-24575
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[NASA-CASE-LAR-13732-1] c 27 N87-25474
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Novel polyimide compositions based on 4,4': Isophthaloyldiphthalic anaydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
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[NASA-CASE-LAR-14162-1] c 27 N90-15259
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
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[NASA-CASE-LEW-14346-1] c 23 N90-19300
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[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
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[NASA-CASE-LAR-13902-1] c 27 N90-23546
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[NASA-CASE-LAR-14338-1] c 24 N90-26881
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[NASA-CASE-LAR-14145-1] c 27 N90-26954
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[NASA-CASE-LAR-14339-1] c 27 N90-26955
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[NASA-CASE-LAR-14198-1] c 27 N90-26956
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[NASA-CASE-LAR-14163-1] c 27 N91-13559
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[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
Methyl substituted polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-14351-1] c 27 N91-13561
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[NASA-CASE-LAR-13965-2-CU] c 23 N91-14418
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[NASA-CASE-LAR-14107-1] c 24 N91-25200
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[NASA-CASE-LAR-14489-1] c 37 N91-27562
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[NASA-CASE-NPO-10714] c 06 N69-31244
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[NASA-CASE-MFS-13994-1] c 06 N71-11240
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[NASA-CASE-LEW-12053-1] c 27 N78-15276
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[NASA-CASE-LAR-12181-1] c 27 N78-17205
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
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[NASA-CASE-XMF-06900-1] c 27 N79-21191
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[NASA-CASE-NPO-10424-1] c 27 N81-24258
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[NASA-CASE-ARC-11176-2] c 27 N81-27271
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[NASA-CASE-ARC-11253-2] c 27 N82-24338
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[NASA-CASE-ARC-11267-2] c 23 N82-28353
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[NASA-CASE-ARC-11421-2] c 27 N86-31726
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[NASA-CASE-ARC-11548-1] c 27 N87-25469
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
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[NASA-CASE-LEW-14346-1] c 23 N90-19300
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
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[NASA-CASE-LEW-14203-1] c 27 N91-15402

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[NASA-CASE-ARC-11043-1] c 24 N78-27180
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[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
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[NASA-CASE-LEW-14734-1] c 24 N89-23623
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[NASA-CASE-LAR-13925-1] c 27 N89-25334
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[NASA-CASE-XNP-09763] c 14 N71-20461
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[NASA-CASE-MFS-20855] c 15 N73-27405
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[NASA-CASE-LEW-11065-2] c 44 N76-14600
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[NASA-CASE-ARC-10892-2] c 27 N79-14214
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[NASA-CASE-ARC-10980-1] c 27 N80-23452
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[NASA-CASE-LAR-12705-1] c 25 N82-26396
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[NASA-CASE-LEW-13120-1] c 27 N82-28440
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[NASA-CASE-ARC-11359-1] c 51 N84-28361
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[NASA-CASE-ARC-11405-2] c 27 N86-19455
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[NASA-CASE-LAR-13384-1] c 27 N86-20561
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[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
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[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
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[NASA-CASE-XMF-08652] c 06 N71-11243
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[NASA-CASE-XMF-04133] c 06 N71-20717
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[NASA-CASE-NPO-10862] c 06 N72-22107
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[NASA-CASE-MFS-20979] c 06 N72-25151
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[NASA-CASE-NPO-10863-2] c 06 N72-25152
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[NASA-CASE-MFS-10507] c 06 N73-30101
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[NASA-CASE-MFS-11492] c 06 N73-30102
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[NASA-CASE-NPO-10557] c 27 N78-17214
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[NASA-CASE-ARC-11170-1] c 27 N79-11215
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[NASA-CASE-ARC-11060-1] c 27 N79-22300
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[NASA-CASE-LEW-12053-2] c 27 N79-28307
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[NASA-CASE-LAR-12054-1] c 27 N79-33316
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[NASA-CASE-MSC-14903-2] c 27 N80-10358
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[NASA-CASE-MSC-14903-3] c 27 N80-24438
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[NASA-CASE-ARC-11241-1] c 25 N81-14016
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[NASA-CASE-NPO-10830-1] c 27 N81-15104
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

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[NASA-CASE-ARC-11253-1] c 27 N81-17262
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[NASA-CASE-MFS-25000-1] c 25 N81-19242
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[NASA-CASE-NPO-13309-1] c 25 N81-19244
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[NASA-CASE-ARC-11176-1] c 27 N82-18389
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[NASA-CASE-LAR-12705-1] c 25 N82-26396
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[NASA-CASE-LAR-12858-1] c 27 N83-34041
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[NASA-CASE-ARC-11400-1] c 27 N84-14322
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[NASA-CASE-NPO-15210-1] c 25 N84-22709
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[NASA-CASE-LAR-12723-2] c 27 N84-22746
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[NASA-CASE-LAR-12980-1] c 27 N84-22749
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[NASA-CASE-ARC-11370-1] c 27 N84-22750
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[NASA-CASE-LAR-13452-1] c 27 N87-22848
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[NASA-CASE-ARC-11533-1] c 27 N87-23751
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[NASA-CASE-ARC-11425-4] c 23 N90-20133
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[NASA-CASE-LAR-13448-1] c 27 N90-21198
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[NASA-CASE-LEW-14203-1] c 27 N91-15402
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[NASA-CASE-LAR-14101-1] c 27 N91-15403
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[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
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[NASA-CASE-NPO-17633-1-CU] c 27 N91-27372
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[NASA-CASE-XMF-10753] c 06 N71-11237
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[NASA-CASE-XMF-03074] c 06 N71-24740
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[NASA-CASE-XLA-08254] c 14 N71-26161
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[NASA-CASE-NPO-10701] c 06 N71-28620
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[NASA-CASE-XLA-01745] c 33 N71-28903
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[NASA-CASE-ARC-10325] c 06 N72-25147
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[NASA-CASE-NPO-12015] c 27 N73-16764
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[NASA-CASE-NPO-10893] c 27 N73-22710
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[NASA-CASE-NPO-10998-1] c 06 N73-32029
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[NASA-CASE-ARC-10592-1] c 27 N74-21156
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[NASA-CASE-MFS-23883-1] c 51 N80-16715
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[NASA-CASE-ARC-11368-3] c 27 N84-22745
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[NASA-CASE-ARC-11370-1] c 27 N84-22750
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[NASA-CASE-LAR-13555-1] c 23 N86-32526
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[NASA-CASE-LEW-14072-3] c 27 N87-23736
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[NASA-CASE-LAR-12980-1] c 27 N84-22749
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[NASA-CASE-LAR-12980-1] c 27 N84-22749
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[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
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[NASA-CASE-LAR-13992-1-CU] c 23 N91-27220
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Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

POLYTETRAFLUOROETHYLENE
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[NASA-CASE-XLA-01262] c 15 N71-21404
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[NASA-CASE-GSC-12883-1] c 27 N85-29044

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Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
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[NASA-CASE-ARC-10098-1] c 06 N71-24739
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[NASA-CASE-ARC-10180-1] c 27 N74-12814
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
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[NASA-CASE-MFS-20607-1] c 37 N76-19436
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[NASA-CASE-ARC-11349-1] c 37 N86-20797

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Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
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[NASA-CASE-NPO-10768-2] c 06 N72-27144
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
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[NASA-CASE-MFS-10512] c 06 N73-30099
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[NASA-CASE-MFS-10506] c 06 N73-30100
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[NASA-CASE-MFS-10509] c 06 N73-30103
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[NASA-CASE-NPO-10767-1] c 06 N73-33076
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[NASA-CASE-MSC-14331-2] c 27 N78-17213

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[NASA-CASE-LEW-12972-1] c 44 N79-25481
Method of cross-linking polyvinyl alcohol and other water *soluble resins*
[NASA-CASE-LEW-13103-1] c 27 N80-32516
In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Polyvinyl alcohol cross-linked with two aldehydes
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Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
POROSITY
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
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[NASA-CASE-XNP-04338] c 17 N71-23046
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[NASA-CASE-XNP-03972] c 15 N71-23048
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[NASA-CASE-MFS-20044] c 14 N71-28993
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[NASA-CASE-XNP-04339] c 17 N71-29137
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Porus electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
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[NASA-CASE-GSC-11367-1] c 44 N74-19692
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[NASA-CASE-MSC-12731-1] c 37 N78-25426
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
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[NASA-CASE-LEW-12131-3] c 37 N82-19540
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[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
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[NASA-CASE-LEW-13171-2] c 44 N83-32176
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
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[NASA-CASE-XLE-00455] c 28 N70-38197
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[NASA-CASE-MSC-16260-1] c 51 N80-16714
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[NASA-CASE-LEW-11531] c 15 N71-14932
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
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[NASA-CASE-XLA-03661] c 15 N71-33518
One hand backpack harness
[NASA-CASE-LAR-10102-1] c 05 N72-23085
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[NASA-CASE-GSC-10879-1] c 14 N72-25413
Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
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[NASA-CASE-NPO-14237-1] c 44 N80-20808
Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Portable 90 degree proof loading device
[NASA-CASE-MSC-20250-1] c 35 N86-19581
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
PORTABLE LIFE SUPPORT SYSTEMS
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
PORTS (OPENINGS)
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
POSITION (LOCATION)
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
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[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
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[NASA-CASE-MFS-28013-2] c 89 N91-14096
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[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
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[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
Two dimensional vernier
[NASA-CASE-MSC-21700-1] c 35 N91-23462
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530
POSITION INDICATORS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
POSITION SENSING
Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
Laser optical disk position encoder with active heads
[NASA-CASE-GSC-13175-1] c 74 N91-14001
POSITIONING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
POSITIONING DEVICES (MACHINERY)
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
POSITIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
POSITRONS
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

POTABLE WATER
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570

POTASSIUM SILICATES
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS
Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

POTTING COMPOUNDS
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Flexible, repairable, pottable material for electrical connectors Patent
[NASA-CASE-XGS-05180] c 18 N71-25881
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
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[NASA-CASE-XLE-00106] c 15 N71-16076
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121
Method for producing dispersion strengthened alloys by *converting metal to a halide, comminuting, reducing the* metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Method of forming articles of manufacture from superalloy powders
[NASA-CASE-LEW-10805-2] c 37 N74-13179
Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
One step HIP canning of powder metallurgy *composites*
[NASA-CASE-LEW-14719-1] c 24 N90-23493
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POWDERED ALUMINUM
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Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
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[NASA-CASE-XNP-10854] c 10 N71-26331
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

POWER CONVERTERS
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693

POWER EFFICIENCY
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
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[NASA-CASE-XLE-04599] c 22 N72-20597
Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER FACTOR CONTROLLERS
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
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[NASA-CASE-MFS-25637-1] c 44 N85-21769
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Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

POWER LIMITERS
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER REACTORS
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER SERIES
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

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Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Data processor having multiple sections activated at different times by selective power coupling to the sections *Patent*
[NASA-CASE-XGS-04767] c 08 N71-12494
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
Power supply Patent
[NASA-CASE-XMS-02159] c 10 N71-22961
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
LC-oscillator with automatic stabilized amplitude via bias *current control --- power supply circuit for transducers*
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

PREBURNERS
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

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Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Human serum albumin crystals and method of *preparation*
[NASA-CASE-MFS-28234-1] c 52 N90-20616
PRECIPITATORS
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320
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Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
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Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662
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Automatic balancing device. Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
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Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042
Braided composite fasteners and method for producing same
[NASA-CASE-LAR-14062-1] c 37 N90-27114
PRELAUNCH TESTS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
PREPOLYMERS
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
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Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
PRESSURE
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
PRESSURE CHAMBERS
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
PRESSURE DISTRIBUTION
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
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Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
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Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
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System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796
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Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
PRESSURE GRADIENTS
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
PRESSURE HEADS
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
PRESSURE MEASUREMENT
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
Fiber optic microphone
[NASA-CASE-LAR-14402-1-CU] c 74 N91-15874
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
PRESSURE PULSES
Passive fetal monitoring sensor
[NASA-CASE-LAR-14088-1] c 35 N91-13686
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Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Volumetric measurement of tank volume
[NASA-CASE-MSC-21500-1] c 35 N91-21493
PRESSURE REGULATORS
Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
Pressure modulating value
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Flow diverter value and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

Intra-ocular pressure normalization technique and *equipment*
[NASA-CASE-LEW-12723-1] c 52 N80-18690
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N91-14703

PRESSURE SENSORS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Circuit for detecting initial systole and dicrotic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Automatic compression adjusting mechanism for internal *combustion engines*
[NASA-CASE-MSC-18807-1] c 37 N83-36483
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Porous plug for reducing orifice induced pressure error *in airfoils*
[NASA-CASE-LAR-13569-1] c 35 N89-12841
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Circumferential pressure probe
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Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229

PROTECTORS
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

PROTEIN CRYSTAL GROWTH
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250
Protein crystal growth tray assembly
[NASA-CASE-MFS-28507-1] c 76 N91-23933

PROTEINS
Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N90-24169
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

PROTOCOL (COMPUTERS)
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
System and method for a general purpose architecture for intelligent computer-aided training
[NASA-CASE-MSC-21381-1] c 63 N91-13944

PROTON FLUX DENSITY
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

PSEUDOMONAS
Pseudomonas diagnostic assay
[NASA-CASE-NPO-17653-1-CU] c 51 N90-27239

PSEUDONOISE
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PULMONARY CIRCULATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

PULSE AMPLITUDE MODULATION
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE COMMUNICATION

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

PULSE DURATION

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

PULSE DURATION MODULATION

Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

PULSED LASERS

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PULSED RADIATION

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

PULSES

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

PULTRUSION

Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334

PUMP SEALS

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

PUMPS

Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133

PUNCHED CARDS

File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PUNCHES

Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

PURGING

Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

PURIFICATION

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362

PURITY

Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

PUSH-PULL AMPLIFIERS

Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

PUSHING
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
PYLONS
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
PYRIDINES
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
PYROELECTRICITY
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
PYROGEN
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
PYROLYSIS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
PYROLYTIC GRAPHITE
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201
PYROLYTIC MATERIALS
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
PYROMETERS
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
PYROTECHNICS
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
PYRRONES (TRADEMARK)
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358

Q

Q SWITCHED LASERS
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
Q VALUES
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
QUADRANTS
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
QUADRATIC PROGRAMMING
Quadraphase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
QUADRATURES
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
QUALITATIVE ANALYSIS
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
QUANTITATIVE ANALYSIS
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
QUANTUM THEORY
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
QUANTUM WELLS
Growth of III-V films by control of MBE growth front stoichiometry
[NASA-CASE-NPO-17724-1-CU] c 76 N90-27517
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
QUARTZ
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball value
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
QUARTZ LAMPS
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
QUINOXALINES
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

R

RACKS (FRAMES)
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
RADAR ANTENNAS
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
RADAR ATTENUATION
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
RADAR BEACONS
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
RADAR BEAMS
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
RADAR CROSS SECTIONS
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317
RADAR DATA
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
RADAR DETECTION
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
RADAR ECHOES
Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342
RADAR EQUIPMENT
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
RADAR IMAGERY
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar *processor for imaging separate range swaths*
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546
RADAR MEASUREMENT
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
RADAR RANGE
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
RADAR RECEIVERS
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
RADAR RECEPTION
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
RADAR REFLECTORS
Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267

RADAR TARGETS

Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

RADAR TRACKING

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

RADAR TRANSMITTERS

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

RADIAL DISTRIBUTION

Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

RADIAL FLOW

Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459

RADIANCE

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

RADIANT COOLING

Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

RADIANT FLUX DENSITY

High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

RADIANT HEATING

High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION

NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

RADIATION COUNTERS

Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE

Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATION DETECTORS

Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
Radiation and particle detector and amplifier
[NASA-CASE-NPO-12128-1] c 14 N73-32317
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Detector absorptivity measuring method and apparatus
[NASA-CASE-LAR-10907-1] c 35 N76-29551
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
X ray sensitive area detection device
[NASA-CASE-MFS-28232-1] c 74 N91-14835

RADIATION DISTRIBUTION

Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

RADIATION DOSAGE

Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION EFFECTS

Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

RADIATION HARDENING

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

RADIATION HAZARDS

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION MEASUREMENT

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

RADIATION MEASURING INSTRUMENTS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447
Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE

Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N90-25498

RADIATION SHIELDING

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

RADIATION SOURCES

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594
Multispectral variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-4] c 89 N90-27595
Variable magnification glancing incidence x ray telescope
[NASA-CASE-MFS-28013-2] c 89 N91-14096
Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388

RADIATION SPECTRA
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATIVE HEAT TRANSFER
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

RADIO ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

RADIO ASTRONOMY
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

RADIO COMMUNICATION
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO CONTROL
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

RADIO EQUIPMENT
System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

RADIO FREQUENCIES
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

RADIO FREQUENCY DISCHARGE
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

RADIO FREQUENCY HEATING
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

RADIO FREQUENCY INTERFERENCE
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

RADIO FREQUENCY SHIELDING
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083

RADIO INTERFEROMETERS
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

RADIO PROBING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

RADIO RECEIVERS
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

RADIO RELAY SYSTEMS
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

RADIO SIGNALS
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO SOURCES (ASTRONOMY)
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

RADIO STARS
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

RADIO TELEMETRY
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

RADIO TELESCOPES
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

RADIO TRANSMITTERS
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO WAVES
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

RADIOACTIVE ISOTOPES
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIOBIOLOGY
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681

RADIOGRAPHY
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

RADIOLOGY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

RADIOLYSIS
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

RADIOMETERS
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323

Thermodielectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931
Non-mechanical optical path switching and its application to *dual beam spectroscopy including gas filter* correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

RADIOSONDES
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

RAILS
Removable hand hold
[NASA-CASE-LEW-15196-1] c 37 N91-26543

RAIN
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

RAMJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

RAMPS (STRUCTURES)
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

RANDOM ACCESS MEMORY
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26518
High speed magneto-resistive random access memory
[NASA-CASE-NPO-17954-1-CU] c 60 N90-26519

RANDOM LOADS
Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

RANDOM NOISE
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

RANDOM NUMBERS
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE AND RANGE RATE TRACKING
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

RANGE FINDERS
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

RANGEFINDING
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RASTER SCANNING
Rotating-unbalanced-mass devices and methods for *scanning balloon-borne-experiments, free-flying* spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304

RATES (PER TIME)
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RAY TRACING
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924

RC CIRCUITS
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transient augmentation circuit for pulse amplifiers *Patent*
[NASA-CASE-XNP-01068] c 10 N71-28739
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION BONDING
Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538

REACTION CONTROL
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160

REACTION KINETICS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION PRODUCTS
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READOUT
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

REAL TIME OPERATION
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Azimuth correlator for real-time synthetic aperture radar *image processing*
[NASA-CASE-NPO-14019-1] c 32 N79-14268
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
Real-time image difference detection using a polarization rotation spacial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096
Methods and apparatus for providing real-time control of a gaseous propellant rocket propulsion system
[NASA-CASE-MSC-21542-1] c 20 N90-26073
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Modified fast frequency acquisition via adaptive least squares algorithm
[NASA-CASE-NPO-17845-1-CU] c 61 N90-27341
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
Predictive sensor method and apparatus
[NASA-CASE-SSC-00006-1] c 35 N91-13691
Real-time dynamic holographic image storage device
[NASA-CASE-LAR-13989-1] c 35 N91-13694
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890

Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
REATTACHED FLOW
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596
REBREATHING
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
RECEIVERS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617
RECIPROCATION
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
RECOMBINATION REACTIONS
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
Isotope exchange in oxide-containing catalyst
[NASA-CASE-LAR-13542-2-SB] c 25 N90-20154
RECONSTRUCTION
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
RECORDING HEADS
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
RECORDING INSTRUMENTS
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
RECOVERABILITY
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
RECOVERABLE LAUNCH VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Oribter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
RECOVERABLE SPACECRAFT
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
RECOVERY PARACHUTES
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Selectable towline spin chute system
[NASA-CASE-LAR-14322-1] c 02 N91-27139
RECTANGULAR PANELS
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
RECTIFIERS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
RECTUM
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
REDOX CELLS
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
REDUCED GRAVITY
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
Acoustic transducer apparatus with reduced thermal conduction
[NASA-CASE-NPO-17620-1-CU] c 71 N91-14808
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-2] c 35 N91-15511
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968
REDUCTION (CHEMISTRY)
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
REDUNDANCY
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
REDUNDANT COMPONENTS
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
REELS
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
REENTRY COMMUNICATION
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
REENTRY SHIELDING
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
REENTRY TRAJECTORIES
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
REENTRY VEHICLES
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
REFERENCE SYSTEMS
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
REFINING
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
REFLECTANCE
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519

REFLECTED WAVES
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914

REFLECTING TELESCOPES
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

REFLECTION
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

REFLECTOMETERS
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

REFLECTOR ANTENNAS
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

REFLECTORS
Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923

REFRACTION
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

REFRACTIVITY
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

REFRACTORY COATINGS
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

REFRACTORY MATERIALS
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02688] c 18 N71-21068
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491

REFRACTORY METALS
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
One step HIP canning of powder metallurgy composites
[NASA-CASE-LEW-14719-1] c 24 N90-23493
High temperature refractory member with radiation emissive overcoat
[NASA-CASE-NPO-17122-1-CU] c 27 N91-14489

REFRIGERATING
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

REFRIGERATING MACHINERY
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Dual solid cryogens for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magentically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

REFRIGERATORS
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
Multicomponent gas sorption Joule-Thomson refrigerator
[NASA-CASE-NPO-17569-1-CU] c 31 N90-26176

REFUELING
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613

REGENERATION (ENGINEERING)
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946

REGENERATION (PHYSIOLOGY)
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N91-31803
REGENERATIVE COOLING
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
REGENERATIVE FUEL CELLS
Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
REGENERATORS
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
REGISTERS (COMPUTERS)
Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
REGULATORS
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
REINFORCED PLASTICS
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
REINFORCEMENT (STRUCTURES)
Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
REINFORCEMENT RINGS
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977
REINFORCING FIBERS
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Continuous fiber thermoplastic prepreg
[NASA-CASE-LAR-14459-1] c 24 N91-15334
Process for the manufacture of seamless metal-clad fiber-reinforced organic matrix composite structures
[NASA-CASE-LAR-13562-2] c 24 N91-25199
RELAXATION OSCILLATORS
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
RELAY SATELLITES
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448
RELEASING
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390
Method and apparatus for releasably connecting first and second objects
[NASA-CASE-MSC-21517-1] c 37 N91-24577
Quick action clamp
[NASA-CASE-LEW-14887-1] c 37 N91-27561
RELIABILITY ANALYSIS
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
RELIABILITY ENGINEERING
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundacy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
RELIEF MAPS
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
RELIEF VALVES
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
REMOTE CONTROL
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-26900
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
REMOTE HANDLING
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
REMOTE MANIPULATOR SYSTEM
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Electromagnetic attachment mechanism
[NASA-CASE-MSC-21463-1] c 37 N91-23490
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
REMOTE SENSING
Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512

REMOTE SENSORS
Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

REMOTELY PILOTED VEHICLES
Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

REMOVAL
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

REPEATERS
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

REPLACING
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

RESCUE OPERATIONS
Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Airborne rescue system
[NASA-CASE-ARC-11909-1] c 03 N91-31113

RESEARCH AIRCRAFT
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

RESEARCH AND DEVELOPMENT
Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330

RESEARCH FACILITIES
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

RESEARCH VEHICLES
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

RESERVOIRS
Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684

RESIDUAL STRESS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527

RESILIENCE
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

RESIN BONDING
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

RESIN MATRIX COMPOSITES
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N91-15403

RESINS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
Novel polyimide molding powder, coating, adhesive, and matrix resin
[NASA-CASE-LAR-14163-1] c 27 N91-13559
Regenerable biocide delivery unit
[NASA-CASE-MSC-21763-1] c 51 N91-25570
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
Ethynyl terminated imidothioethers and resins therefrom
[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

RESISTANCE
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

RESISTANCE HEATING
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

RESISTORS
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

RESOLUTION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318

RESOLVERS
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

RESONANCE
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

RESONANT FREQUENCIES
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Acoustic positioning and orientation prediction
[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807

RESONANT VIBRATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

RESONATORS
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
RESOURCE ALLOCATION
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
RESPIRATION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
RESPIRATORS
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
RESPIRATORY RATE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
RESPIROMETERS
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728
RESPONSE TIME (COMPUTERS)
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N91-25693
RESPONSES
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176
RESTARTABLE ROCKET ENGINES
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
RESUSCITATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922
RETAINING
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
RETARDERS (DEVICES)
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
RETARDING
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
RETICLES
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886
Multiple axis reticle
[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
RETINA
Portable dynamic fundus instrument
[NASA-CASE-MSC-21675-1] c 52 N91-13865
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
RETINAL IMAGES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
RETRACTABLE EQUIPMENT
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
RETROFIRING
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
RETROREFLECTION
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N91-15512
RETROREFLECTORS
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
RETROROCKET ENGINES
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
RETURN TO EARTH SPACE FLIGHT
Assured crew return vehicle
[NASA-CASE-MSC-21536-1] c 18 N91-13483
REUSABLE HEAT SHIELDING
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186
REUSABLE ROCKET ENGINES
Earth-to-orbit vehicle providing a reusable orbital stage
[NASA-CASE-LAR-13486-1] c 16 N90-22584
REUSABLE SPACECRAFT
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
REUSE
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
Reusable high-temperature heat pipes and heat pipe panels
[NASA-CASE-LAR-13761-1] c 34 N90-20323
REVERSE OSMOSIS
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
REVERSED FLOW
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
REYNOLDS NUMBER
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
REYNOLDS STRESS
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
RHENIUM
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
RHEOMETERS
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
RHOMBOIDS
Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
RIBBONS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898
RIBLETS
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
RIBOFLAVIN
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
RIBS (SUPPORTS)
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
RICE
Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096
RIDING QUALITY
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
RIGID ROTORS
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
RIGID STRUCTURES
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
Mechanical end joint system for connecting structural column elements
[NASA-CASE-LAR-14465-1] c 37 N91-14614
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
RIGID WINGS
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
RIMS
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
RING CURRENTS
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
RING STRUCTURES
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877

Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

RING WINGS
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

RIPPLES
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS
Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOT ARMS
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

ROBOT CONTROL
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528

ROBOT DYNAMICS
Spiral lead platen robotic end effector
[NASA-CASE-LAR-13855-1] c 37 N91-14615
Multi-fingered robotic hand
[NASA-CASE-NPO-15959-2] c 37 N91-14616
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

ROBOT SENSORS
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542

ROBOTICS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Gripping device
[NASA-CASE-MSC-21365-1] c 37 N90-20408
Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Power saw
[NASA-CASE-MSC-21469-1] c 37 N91-31655
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

ROBOTS
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Robot cable-compliant devices
[NASA-CASE-GSC-13127-1] c 37 N91-17388
Method and apparatus for configuration control of redundant robots
[NASA-CASE-NPO-17801-1-CU] c 37 N91-21544
Obstacle avoidance for redundant robots using configuration control
[NASA-CASE-NPO-17852-1-CU] c 63 N91-23783
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

ROBUSTNESS (MATHEMATICS)
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

ROCKET ENGINE CASES
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

ROCKET ENGINE CONTROL
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

ROCKET ENGINE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

ROCKET ENGINES
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N91-15142

ROCKET EXHAUST
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

ROCKET FIRING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663

ROCKET FLIGHT
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691

ROCKET LAUNCHING
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043

ROCKET LININGS
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573

ROCKET NOZZLES
Gimbaled, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321

Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
Nozzle fabrication technique
[NASA-CASE-MSC-21299-2] c 37 N91-32508

ROCKET OXIDIZERS
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209

ROCKET PROPELLANTS
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

ROCKET TEST FACILITIES
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

ROCKET THRUST
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thrustor with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

ROCKET VEHICLES
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

ROCKET-BORNE INSTRUMENTS
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

ROCKETS
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

ROCKS
Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

RODS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
Preloaded latching device
[NASA-CASE-MSC-21730-1] c 37 N91-23493

ROLL
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

ROLLER BEARINGS
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

ROLLERS
Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N91-21540
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N91-23380
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511

ROLLING
Device for applying constant pressure to a surface
[NASA-CASE-GSC-13230-1] c 37 N91-13734

ROLLING CONTACT LOADS
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

ROLLING MOMENTS
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

ROOM TEMPERATURE
Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

ROTARY GYROSCOPES
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

ROTARY STABILITY
Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

ROTARY WING AIRCRAFT
Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

ROTARY WINGS
Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

ROTATING BODIES
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
Orbital debris sweeper and method
[NASA-CASE-MSC-21534-1] c 18 N91-21222

ROTATING CYLINDERS
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

ROTATING DISKS
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508

ROTATING ELECTRICAL MACHINES
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828

ROTATING MIRRORS
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Cryogenic anti-friction bearing with inner race
[NASA-CASE-MFS-28384-1] c 37 N90-27112
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459

ROTATION
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769
Rotating-unbalanced-mass devices and methods for scanning balloon-borne-experiments, free-flying spacecraft, and space shuttle/space station attached experiments
[NASA-CASE-MFS-28425-1] c 35 N90-26304
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
Compliant joint
[NASA-CASE-GSC-13153-1] c 37 N91-17387
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
Rotationally actuated prosthetic helping hand
[NASA-CASE-MFS-28426-1] c 54 N91-32795
Three dimensional moire pattern alignment
[NASA-CASE-MSC-21416-1] c 74 N91-32922

ROTOR AERODYNAMICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES
Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT
Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
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[NASA-CASE-ARC-11633-1] c 08 N87-23631
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Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

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[NASA-CASE-XLA-00119] c 11 N70-33329
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[NASA-CASE-ARC-10990-1] c 04 N82-16059

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[NASA-CASE-XAC-00731] c 11 N71-15960
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[NASA-CASE-XLE-01092] c 15 N71-22797
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[NASA-CASE-XLA-07473] c 15 N71-24895
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[NASA-CASE-GSC-11095-1] c 14 N72-10375
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[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
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[NASA-CASE-LAR-10753-1] c 08 N74-30421
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[NASA-CASE-ARC-10519-2] c 05 N75-25915
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[NASA-CASE-LAR-10623-1] c 14 N73-30395
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

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Plural output optimetric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

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Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
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[NASA-CASE-NPO-11373] c 13 N72-25323
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[NASA-CASE-MSC-12458-1] c 08 N73-32081
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
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[NASA-CASE-LAR-11069-1] c 35 N75-12272
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
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[NASA-CASE-MSC-16841-1] c 34 N79-24285
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[NASA-CASE-ARC-11322-1] c 51 N83-28849
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
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[NASA-CASE-MSC-20653-1] c 35 N86-26595
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[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
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[NASA-CASE-MSC-21729-1] c 34 N91-17340
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[NASA-CASE-MSC-21470-1] c 09 N91-21157
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

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[NASA-CASE-XLA-00349] c 33 N70-37979
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[NASA-CASE-XLA-00495] c 14 N70-41332
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
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[NASA-CASE-XNP-05297] c 15 N71-23811
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[NASA-CASE-LAR-11898-1] c 24 N78-10214
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[NASA-CASE-ARC-11040-1] c 24 N79-16915
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[NASA-CASE-LAR-12620-1] c 24 N82-32417
New core design for use with precision composite reflectors
[NASA-CASE-NPO-17858-1-CU] c 24 N90-26880

SAPPHIRE
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

SATELLITE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
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[NASA-CASE-LAR-13798-1] c 32 N89-25363

SATELLITE ATTITUDE CONTROL
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[NASA-CASE-XNP-00438] c 21 N70-35089
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
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[NASA-CASE-HQN-10439] c 21 N72-21624
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
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[NASA-CASE-XLE-10717] c 37 N75-29426
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[NASA-CASE-MFS-22787-1] c 15 N77-10113
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[NASA-CASE-LAR-12052-1] c 18 N81-29152

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Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523

SATELLITE CONTROL
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

SATELLITE DESIGN
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081

SATELLITE INSTRUMENTS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

SATELLITE NETWORKS
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

SATELLITE OBSERVATION
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327

SATELLITE ORBITS
Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050

SATELLITE ORIENTATION
Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
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[NASA-CASE-XGS-05579] c 31 N71-15676
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[NASA-CASE-HQN-00936] c 31 N71-29050
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[NASA-CASE-GSC-10880-1] c 08 N72-11172

SATELLITE PERTURBATION
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[NASA-CASE-XMF-00442] c 31 N71-10747

SATELLITE POWER TRANSMISSION
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

SATELLITE ROTATION
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[NASA-CASE-XGS-02401] c 14 N69-27485
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
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[NASA-CASE-HQN-00936] c 31 N71-29050
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352

SATELLITE TELEVISION
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374

SATELLITE TRACKING
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

SATELLITE TRANSMISSION
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

SATELLITE-BORNE INSTRUMENTS
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SATELLITE-BORNE PHOTOGRAPHY
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SATURABLE REACTORS
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[NASA-CASE-NPO-14556-1] c 33 N82-24418
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

SATURATION
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

SAWS
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
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[NASA-CASE-MSC-21469-1] c 37 N91-31655

SAWTOOTH WAVEFORMS
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[NASA-CASE-XMS-01315] c 09 N70-41675

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Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
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[NASA-CASE-MFS-20335-1] c 35 N74-10415
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
Electronically scanned pressure sensor module with in SITU calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
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[NASA-CASE-GSC-12032-2] c 43 N82-13465
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[NASA-CASE-MSC-18627-1] c 74 N82-30071
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
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[NASA-CASE-NPO-15345-1] c 74 N84-23247
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[NASA-CASE-NPO-17390-1-CU] c 35 N90-22769

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Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250

Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

SCATTERING CROSS SECTIONS
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[NASA-CASE-NPO-14079-1] c 25 N80-20334
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N91-25317

SCENE ANALYSIS
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[NASA-CASE-ARC-11504-1] c 09 N86-32447

SCHLIEREN PHOTOGRAPHY
System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

SCHMIDT CAMERAS
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[NASA-CASE-NPO-14372-1] c 35 N80-26635

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[NASA-CASE-GSC-12756-1] c 74 N84-23248

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Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

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High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Solar cells having integral collector grids
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Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
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[NASA-CASE-NPO-13689-4] c 44 N82-28780
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N91-21434

SCIENTIFIC SATELLITES
Nano-G research laboratory for a spacecraft
[NASA-CASE-GSC-13197-1] c 18 N91-27201

SCOOPS
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

SCORING
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

SCRAMBLING (COMMUNICATION)
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SCREWS
Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

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High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

SEA ICE
A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SEA STATES
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

SEA SURFACE TEMPERATURE
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SEALERS
Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

SEALING
Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Cantilever clamp fitting
[NASA-CASE-MFS-28328-1] c 37 N91-13731
Probe insertion apparatus with inflatable seal
[NASA-CASE-LEW-14965-1] c 37 N91-13732
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N91-21175
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
Double face sealing device
[NASA-CASE-MFS-28521-1] c 37 N91-26542

SEALS (STOPPERS)
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N90-23751
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
High-temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N91-27560

SEAMS (JOINTS)
Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

SEAT BELTS
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Hydraulic lifting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

SECONDARY EMISSION
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

SECONDARY FLOW
Heat exchanger with oscillating flow
[NASA-CASE-LAR-14033-1] c 34 N90-27072

SECTORS
Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEDIMENTS
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

SEGMENTS
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Equal path, phase shifting, sample point interferometer for monitoring the configuration of surfaces
[NASA-CASE-NPO-17913-1-CU] c 74 N90-27488
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923

SEISMIC WAVES
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

SEISMOGRAPHS

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTORS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ADAPTIVE CONTROL SYSTEMS

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

SELF ALIGNMENT

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

SELF ERECTING DEVICES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373

SELF FOCUSING

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION

Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Self-checking on-line testable static RAM
[NASA-CASE-NPO-17939-1-CU] c 60 N90-26516

SEMICONDUCTOR DEVICES

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Method of forming thin window drifted silicon charged *particle detector* Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
Method for anisotropic etching in the manufacture of semiconductor devices
[NASA-CASE-MSC-21631-1] c 75 N91-32947

SEMICONDUCTOR DIODES

Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

SEMICONDUCTOR JUNCTIONS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

SEMICONDUCTOR LASERS

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N91-21871
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

SEMICONDUCTORS (MATERIALS)

Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
Method of making impurity-type semiconductor electrical *contacts* Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with *negative differential mobility*
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
Method of making macrocrystalline or single crystal *semiconductor material*
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
Quantum well, beam deflecting surface emitting lasers
[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489

SENSITIVITY

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

SENSITOMETRY

Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

SENSORS

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

SENSORY PERCEPTION
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SEPARATED FLOW
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N90-24168
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-2-SB] c 34 N91-31596

SEPARATION
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

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Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Gels as battery separators for soluable electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
Zero-G phase detector and separator
[NASA-CASE-LEW-14844-1] c 35 N90-22024

SEQUENCING
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340

SEQUENTIAL ANALYSIS
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144

SEQUENTIAL COMPUTERS
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SEQUENTIAL CONTROL
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636

SERUMS
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Human serum albumin crystals and method of preparation
[NASA-CASE-MFS-28234-1] c 52 N90-20616

SERVICE LIFE
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

SERVOAMPLIFIERS
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147

SERVOCONTROL
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

SERVOMECHANISMS
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975

SERVOMOTORS
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

SEWAGE TREATMENT
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

SHADES
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

SHAFTS (MACHINE ELEMENTS)
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
Rolling friction robot fingers
[NASA-CASE-GSC-13261-1] c 37 N91-17401
Magnetostrictive roller drive motor
[NASA-CASE-GSC-13369-1] c 33 N91-23380
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Control circuitry using electronic emulation of a synchro signal for accurate control of position and rate of rotation for shafts
[NASA-CASE-MFS-28458-1] c 33 N91-26459
Suspension device for low-frequency structures
[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

SHAKERS
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

SHALE OIL
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

SHALES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SHAPE CONTROL
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

SHAPE MEMORY ALLOYS
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727

SHAPED CHARGES
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

SHAPERS
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721

SHAPES
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
Lightweight piston architecture
[NASA-CASE-LAR-13926-1] c 37 N90-22042

SHARKS
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545

SHARPNESS
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

SHEAR CREEP
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW
Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860

SHEARING
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858
Driven shielding capacitive proximity sensor
[NASA-CASE-GSC-13377-1] c 63 N91-28785

SHIFT REGISTERS
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHIP HULLS
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

SHOCK ABSORBERS
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fracturable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Energy dissipator
[NASA-CASE-MSC-21555-1] c 37 N91-23492

SHOCK LOADS
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES
Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES
Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES
Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Impact tolerant material
[NASA-CASE-LAR-12887-3] c 24 N90-21822

SHOES
Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
SHOT PEENING
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454
SHOULDERS
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507
SHROUDED NOZZLES
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
SHROUDED TURBINES
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
SHROUDS
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
SHUTTERS
High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
SHUTTLE DERIVED VEHICLES
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
SIDE INLETS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
SIDEBANDS
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
SIDELOBE REDUCTION
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
SIGNAL ANALYSIS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966
SIGNAL ANALYZERS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
SIGNAL DETECTION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
Real time pre-detection dynamic range compression
[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439
Integrated filter and detector array for spectral imaging
[NASA-CASE-NPO-18317-1-CU] c 74 N91-32926
SIGNAL DETECTORS
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
SIGNAL DISTORTION
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
SIGNAL ENCODING
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Trellis coded modulation for transmission over fading mobile satellite channel
[NASA-CASE-NPO-16904-2-CU] c 32 N91-14523
SIGNAL GENERATORS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
SIGNAL MEASUREMENT
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
SIGNAL MIXING
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
SIGNAL PROCESSING
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Correlation function apparatus Patent
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System for plotting subsoil structure and method therefor
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[NASA-CASE-NPO-14426-1] c 33 N81-27396
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Serial data correlator/code translator
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Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
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Optical stereo video signal processor
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Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Processing circuit with asymmetry corrector and convolutional encoder for digital data
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[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
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[NASA-CASE-LAR-13817-1] c 26 N90-21170
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[NASA-CASE-NPO-17430-1-CU] c 33 N90-21951
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[NASA-CASE-LAR-14088-1] c 35 N91-13686
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[NASA-CASE-NPO-17997-1-CU] c 60 N91-13888
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[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321
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[NASA-CASE-NPO-18098-1-CU] c 74 N91-23890
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[NASA-CASE-NPO-16987-1-CU] c 32 N91-25316
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[NASA-CASE-NPO-17853-1-CU] c 32 N91-25318
Radiation sensitive area detection device and method
[NASA-CASE-MFS-28563-1] c 35 N91-25388
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[NASA-CASE-NPO-17703-1-CU] c 74 N91-27957

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Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Decoder system Patent
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Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
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[NASA-CASE-NPO-11738-1] c 09 N73-30185
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[NASA-CASE-NPO-10166-2] c 35 N76-16391
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
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[NASA-CASE-LAR-13006-1] c 17 N87-16863

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Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321

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[NASA-CASE-XGS-05441] c 10 N71-22962
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
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[NASA-CASE-NPO-15036-1] c 74 N82-19029

SIGNAL TO NOISE RATIOS
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Radar ranging receiver Patent
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[NASA-CASE-XMF-00701] c 09 N70-40272
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Signal ratio system utilizing voltage controlled oscillators Patent
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[NASA-CASE-ERC-10112] c 07 N72-21119
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[NASA-CASE-LAR-10253-1] c 09 N72-25258
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[NASA-CASE-MSC-12259-2] c 07 N72-33146
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
Gated compressor, distortionless signal limiter
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[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339

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[NASA-CASE-XGS-05918] c 07 N69-39974
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[NASA-CASE-XAC-00086] c 09 N70-33182
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
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[NASA-CASE-XGS-01590] c 07 N71-12392
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[NASA-CASE-XNP-05254] c 07 N71-20791
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Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
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[NASA-CASE-XGS-03632] c 09 N71-23311
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[NASA-CASE-KSC-10108] c 14 N73-25461
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[NASA-CASE-KSC-10654-1] c 07 N73-30115
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[NASA-CASE-NPO-11962-1] c 33 N74-10194
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
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[NASA-CASE-MSC-12494-1] c 32 N74-20810
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[NASA-CASE-MSC-14558-1] c 32 N75-21486
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[NASA-CASE-GSC-11743-1] c 32 N75-24981
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[NASA-CASE-NPO-13683-1] c 35 N77-14411
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[NASA-CASE-KSC-11047-1] c 74 N78-14889
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[NASA-CASE-KSC-11023-1] c 32 N79-23310
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[NASA-CASE-NPO-14749-1] c 32 N81-14186
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[NASA-CASE-MSC-16747-1] c 33 N81-17349
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[NASA-CASE-GSC-12646-1] c 33 N83-34191
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Doppler radar with multiphase modulation of transmitted and reflected signal
[NASA-CASE-MSC-18808-1] c 32 N90-20280
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[NASA-CASE-XMF-04133] c 06 N71-20717
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[NASA-CASE-XMF-06409] c 06 N71-23230
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[NASA-CASE-XMF-08674] c 06 N71-28807
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
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[NASA-CASE-NPO-14369-1] c 44 N83-10501
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[NASA-CASE-MFS-25721-1] c 25 N85-21280
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[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

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[NASA-CASE-HQN-10328-2] c 27 N82-29454
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[NASA-CASE-HQN-10595-1] c 27 N82-29455

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[NASA-CASE-XGS-04119] c 18 N69-39979
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[NASA-CASE-GSC-12303-1] c 24 N79-31347

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[NASA-CASE-XLE-10910] c 18 N71-29040
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[NASA-CASE-LEW-11179-1] c 27 N76-16229
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[NASA-CASE-XLE-00808] c 24 N71-10560
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
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[NASA-CASE-NPO-13918-1] c 76 N79-11920
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[NASA-CASE-NPO-14474-1] c 26 N80-14229
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[NASA-CASE-NPO-14382-1] c 31 N80-18231
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[NASA-CASE-NPO-14406-1] c 37 N80-29703
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[NASA-CASE-NPO-14297-1] c 33 N81-19389
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[NASA-CASE-NPO-15539-1] c 37 N82-11469
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[NASA-CASE-LEW-13343-1] c 27 N82-28441
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[NASA-CASE-NPO-14369-1] c 44 N83-10501
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[NASA-CASE-NPO-15629-1] c 76 N84-35113
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[NASA-CASE-NPO-16155-1] c 44 N85-30475
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Silicon containing electroconductive polymers and structures made therefrom
[NASA-CASE-NPO-17826-1-CU] c 27 N90-26952
Method of forming three-dimensional semiconductor structures
[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
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[NASA-CASE-NPO-16306-1-CU] c 76 N91-15898
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546

SILICON ALLOYS
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[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

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[NASA-CASE-ERC-10120] c 26 N69-33482
Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
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[NASA-CASE-XLA-02057] c 26 N70-40015
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[NASA-CASE-LEW-12094-1] c 76 N76-25049
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[NASA-CASE-NPO-13969-1] c 76 N79-23798
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Process for the controlled growth of single-crystal films of silicon carbide polytypes on silicon carbide wafers
[NASA-CASE-LEW-15222-1] c 76 N91-26966
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[NASA-CASE-LEW-15223-1] c 76 N91-26967
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[NASA-CASE-NPO-11907-1-NP] c 24 N91-31236

SILICON COMPOUNDS
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Fabrication of nanometer single crystal metallic CoSi2 structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

SILICON CONTROLLED RECTIFIERS
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

SILICON DIOXIDE
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

SILICON FILMS
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650

SILICON JUNCTIONS
Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

SILICON NITRIDES
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

SILICON OXIDES
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

SILICON POLYMERS
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177
SILICON RADIATION DETECTORS
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
SILICON TRANSISTORS
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
SILICONE RESINS
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
SILICONES
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
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Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
SILOXANES
Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
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[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
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[NASA-CASE-XMS-02872] c 05 N69-21925
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[NASA-CASE-XGS-00963] c 15 N69-39735
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[NASA-CASE-MSC-10960-1] c 03 N71-24718
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[NASA-CASE-LEW-14902-1] c 24 N91-27244
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Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
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Special purpose parallel computer architecture for real-time control and simulation in robotic applications
[NASA-CASE-NPO-17629-1-CU] c 60 N90-27268
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[NASA-CASE-NPO-17632-1-CU] c 60 N91-32805
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Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
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[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
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[NASA-CASE-XKS-10804] c 05 N71-24606
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[NASA-CASE-NPO-10251] c 10 N71-27365
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Method and apparatus for self-calibration and phasing of array antenna
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[NASA-CASE-LAR-10310-1] c 10 N73-20253
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Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
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[NASA-CASE-ERC-10222] c 09 N72-22199
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[NASA-CASE-LEW-11632-2] c 35 N75-13213
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[NASA-CASE-LAR-11144-1] c 25 N75-26043
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
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[NASA-CASE-NPO-13969-1] c 76 N79-23798
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[NASA-CASE-LEW-13837-2] c 24 N85-21267
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[NASA-CASE-NPO-15904-1] c 76 N86-28760
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
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[NASA-CASE-MFS-28060-1] c 76 N87-25862
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[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
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[NASA-CASE-NPO-17835-1-CU] c 76 N90-27518
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[NASA-CASE-LEW-14921-1] c 24 N91-13502
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[NASA-CASE-LEW-15222-1] c 76 N91-26966
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[NASA-CASE-LEW-15223-1] c 76 N91-26967
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Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
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[NASA-CASE-LEW-10393-1] c 17 N71-15468
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[NASA-CASE-NPO-15161-1] c 33 N84-16456
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Method of making single crystal fibers
[NASA-CASE-LEW-14921-1] c 24 N91-13502
Method of making contamination-free ceramic bodies
[NASA-CASE-LEW-14984-1] c 27 N91-16152
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Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
SIZE (DIMENSIONS)
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
SIZE DETERMINATION
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431
SIZE SEPARATION
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-2] c 15 N71-26148
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
SIZING (SHAPING)
Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
SIZING SCREENS
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
SKEWNESS
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
SKID LANDINGS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160
SKIN (ANATOMY)
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
SKIN (STRUCTURAL MEMBER)
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
SKIN FRICTION
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071
Polymer/riblet combination for hydrodynamic skin friction reduction
[NASA-CASE-LAR-14271-1-CU] c 27 N91-13558
SKIN TEMPERATURE (BIOLOGY)
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
SKIN TEMPERATURE (NON-BIOLOGICAL)
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
SKIRTS
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
SKY BRIGHTNESS
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
SLEEP
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
SLEEVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
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[NASA-CASE-KSC-11069-1] c 52 N79-26772
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

SLENDER BODIES
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
SLEWING
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
SLICING
Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
SLIDING
Hybrid butterfly valve
[NASA-CASE-SSC-00004-1] c 37 N91-14609
SLIDING CONTACT
Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
SLIDING FRICTION
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
SLIP CASTING
Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
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Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
SLOPES
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
SLOT ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
SLOTS
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
SLUDGE
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
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Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Preparing composite materials from matrices of processable aromatic polyimide thermoplastic blends
[NASA-CASE-LAR-14107-1] c 24 N91-25200
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Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
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Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
SODIUM CHLORIDES
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
SODIUM VAPOR
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
SOFT LANDING
Non-reusuable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
SOFT LANDING SPACECRAFT
Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
SOIL MECHANICS
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
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Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
SOIL SCIENCE
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
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Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Remote sensing of vegetation and soil using microwave ellipsometry
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SOL-GEL PROCESSES
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
SOLAR ACTIVITY
Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
SOLAR ARRAYS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614
SOLAR CELLS
Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571

High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Thin solar cell and lightweight array
[NASA-CASE-LEW-14959-1] c 44 N91-27614

SOLAR COLLECTORS

Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Wide acceptance angle, high concentration ratio, optical collector
[NASA-CASE-MFS-28295-1] c 74 N91-13999

SOLAR ELECTRIC PROPULSION

Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179

SOLAR ENERGY

Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617

SOLAR ENERGY ABSORBERS

Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Aluminium or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452

SOLAR ENERGY CONVERSION

Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410

SOLAR FLUX DENSITY

Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203

SOLAR FURNACES

High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622

SOLAR GENERATORS

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

SOLAR GRAVITATION

Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394

SOLAR HEATING

Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686

SOLAR OBSERVATORIES

Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568

SOLAR PONDS (HEAT STORAGE)
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
SOLAR POSITION
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
SOLAR POWERED AIRCRAFT
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
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Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
SOLAR RADIATION SHIELDING
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
SOLAR RADIO EMISSION
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
SOLAR REFLECTORS
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
SOLAR SAILS
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
SOLAR SENSORS
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
SOLAR SIMULATORS
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
SOLAR-PUMPED LASERS
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
SOLDERED JOINTS
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
SOLDERING
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
High temperature solder device for flat cables
[NASA-CASE-GSC-13344-1] c 26 N91-28363
SOLDERS
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Solder dross removal apparatus
[NASA-CASE-MFS-28406-1] c 37 N91-13729
SOLENOID VALVES
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
SOLENOIDS
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
SOLID CRYOGEN COOLING
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
SOLID ELECTRODES
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
SOLID ELECTROLYTES
Secondary Li battery incorporating 12-crown-4 ether
[NASA-CASE-NPO-17922-1-CU] c 33 N91-13621
SOLID LUBRICANTS
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
SOLID PHASES
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
SOLID PROPELLANT IGNITION
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
SOLID PROPELLANT ROCKET ENGINES
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
SOLID PROPELLANTS
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
SOLID ROCKET BINDERS
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
SOLID ROCKET PROPELLANTS
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213

Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536

SOLID STATE
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

SOLID STATE DEVICES
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

SOLID STATE LASERS
Cladding for transverse-pumped solid-state laser
[NASA-CASE-NPO-17355-1-CU] c 36 N91-17360

SOLID SURFACES
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

SOLID WASTES
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225

SOLID-SOLID INTERFACES
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

SOLIDIFICATION
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Method of preparing radially homogeneous mercury cadmium telluride crystals
[NASA-CASE-MFS-25786-2] c 76 N90-20896
Solidification processing of alloys using an applied electric field
[NASA-CASE-MFS-26083-1-CU] c 26 N90-26940

SOLIDIFIED GASES
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324

SOLIDS FLOW
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

SOLUBILITY
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

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Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MSC-14081-1] c 35 N74-27860

SOLUTIONS
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[NASA-CASE-MFS-20410] c 15 N71-19214
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[NASA-CASE-XMF-03248] c 11 N71-10604
Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
High pressure gas filter system Patent
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Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Nano-G research laboratory for a spacecraft
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SPACEBORNE TELESCOPES
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

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Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACECRAFT ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

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Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Regenerable device for scrubbing breathable air of CO2 and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

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Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

SPACECRAFT COMMUNICATION
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

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Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
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[NASA-CASE-XGS-08718] c 15 N71-24600

Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798

SPACECRAFT CONFIGURATIONS
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Space Shuttle with rail system and aft thrust structure *securing solid rocket boosters to external tank*
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACECRAFT CONSTRUCTION MATERIALS
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

SPACECRAFT CONTROL
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
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[NASA-CASE-XGS-04393] c 21 N71-14159
Reactance control system Patent
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Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

SPACECRAFT DESIGN
Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
Fluid-loop reaction system
[NASA-CASE-NPO-17204-1-CU] c 34 N91-25380

SPACECRAFT DOCKING
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346
Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912
Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162
Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876
Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798
Docking mechanism for spacecraft
[NASA-CASE-MSC-21386-1] c 18 N90-20126
Closed-loop autonomous docking system
[NASA-CASE-MFS-28421-1] c 18 N90-26861
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374
Pressure vessel flex joint
[NASA-CASE-MSC-21748-1] c 37 N91-25415
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

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Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
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[NASA-CASE-XMS-09632-1] c 05 N71-11203
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
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Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

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Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Acoustic convective system
[NASA-CASE-NPO-17278-1-CU] c 31 N90-21215
System for connecting fluid couplings
[NASA-CASE-MFS-26042-1-SB] c 37 N91-14613
Two fault tolerant toggle-hook release
[NASA-CASE-MSC-21671-1] c 37 N91-32498

SPACECRAFT GUIDANCE
Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
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[NASA-CASE-MSC-10959] c 15 N71-26243
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

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[NASA-CASE-XNP-00614] c 14 N70-36907
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[NASA-CASE-XMF-00339] c 15 N70-39896
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
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[NASA-CASE-NPO-14054-1] c 32 N82-12297
Stirling cycle cryogenic cooler
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Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

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Non-reusuable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

SPACECRAFT LAUNCHING
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

SPACECRAFT MODELS
Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

SPACECRAFT MODULES
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730
Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

SPACECRAFT MOTION
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372

SPACECRAFT POSITION INDICATORS
Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640

SPACECRAFT POWER SUPPLIES
Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
Generator for a space power system Patent
[NASA-CASE-XLE-04250] c 09 N71-20446
Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612
Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N91-14495

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Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

SPACECRAFT RADIATORS
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424

SPACECRAFT RECOVERY
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

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Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

SPACECRAFT SHIELDING
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
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Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Thermally isolated deployable shield for spacecraft
[NASA-CASE-MFS-28524-1] c 18 N91-25167
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

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Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

SPACECRAFT STRUCTURES
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

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Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865

SPACECRAFT TEMPERATURE
Space vehicle thermal rejection system
[NASA-CASE-LAR-13738-1] c 18 N87-29586
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

SPACECRAFT TRACKING
Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598
Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N91-14321

SPACECREWS
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481

SPACELAB PAYLOADS
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION
Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925

SPARKS
Electronic precipitator control
[NASA-CASE-LAR-13273-2] c 33 N90-20320

SPATIAL DISTRIBUTION
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

SPATIAL RESOLUTION
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

SPECIMENS
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N90-23756

SPECTRAL BANDS
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

SPECTRAL CORRELATION
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY
Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

SPECTRAL SIGNATURES
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

SPECTROMETERS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491
Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

SPECTROPHOTOMETERS
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867

SPECTRORADIOMETERS
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

SPECTROSCOPIC ANALYSIS
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N90-24150
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167

SPECTROSCOPIC TELESCOPES
Variable magnification variable dispersion glancing incidence imaging x ray spectroscopic telescope
[NASA-CASE-MFS-28013-3] c 89 N90-27594

SPECTROSCOPY
Non-mechanical optical path switching and its application to dual beam spectroscopy including gas filter correlation radiometry
[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889

SPECTRUM ANALYSIS
Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816

SPECULAR REFLECTION
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

SPEECH BASEBAND COMPRESSION
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

SPEECH RECOGNITION
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SPEED CONTROL
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

SPEED INDICATORS
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

SPEED REGULATORS
A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

SPENT FUELS
Gamma ray collimator
[NASA-CASE-SSC-00013-1] c 38 N91-32515

SPHERES
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

SPHERICAL SHELLS
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N90-23700

SPHERICAL TANKS
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

SPHERICAL WAVES
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

SPHYGMOGRAPHY
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

SPIKE NOZZLES
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

SPIKE POTENTIALS
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

SPILLING
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

SPIN DYNAMICS
Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Miniaturization of flight deflection measurement system
[NASA-CASE-LAR-13628-1] c 35 N90-23707

SPIN REDUCTION
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SPIN STABILIZATION
Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SPINDLES
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580

SPINE
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

SPIRAL ANTENNAS
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPIRAL WRAPPING
Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918

Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

SPIRALS (CONCENTRATORS)
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

SPIROMETERS
Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

SPLICING
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

SPLINES
Spline-locking payload fastener
[NASA-CASE-GSC-13378-1] c 37 N91-28581

SPLINTS
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

SPOILERS
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

SPOKES
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350

SPORES
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

SPOT WELDS
Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

SPRAY CHARACTERISTICS
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

SPRAY NOZZLES
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

SPRAYED COATINGS
Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

SPRAYERS
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
Improved sprayable lightweight ablative coating
[NASA-CASE-MFS-28372-1] c 27 N91-24426

SPRAYING
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588

SPREAD SPECTRUM TRANSMISSION
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546

SPREADING
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809

SPRINGS (ELASTIC)
Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

SPUTTERING
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

SQUARE WAVES
High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

SQUARES (MATHEMATICS)
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

SQUEEZE FILMS
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

SQUIBS
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

SQUID (DETECTORS)
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602

STABILITY
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Reflection oscillators employing series resonant crystals'
[NASA-CASE-GSC-13173-1] c 33 N90-23635
Adjustable choke for fluids nozzle
[NASA-CASE-NPO-17625-1-CU] c 34 N90-27070
Vinyl capped addition polyimides
[NASA-CASE-LEW-15027-1] c 27 N91-13566

STABILITY AUGMENTATION
Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985

STABILITY TESTS
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146

STABILIZATION
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236

STABILIZED PLATFORMS
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
Failure detection and control means for improved drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
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Radiant energy intensity measurement system Patent [NASA-CASE-XNP-06510] c 14 N71-23797
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[NASA-CASE-XNP-04758] c 03 N71-24605
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[NASA-CASE-NPO-11021] c 03 N72-20032
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Rechargeable battery which combats shape change of the zinc anode
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[NASA-CASE-LEW-12220-1] c 44 N77-14581
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[NASA-CASE-LEW-12358-1] c 44 N79-17313
Toroidal cell and battery --- storage battery for high amp-hour load applications
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[NASA-CASE-NPO-13930-1] c 52 N79-14749
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Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682
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Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
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[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
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[NASA-CASE-XNP-08274] c 10 N71-13537
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Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
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[NASA-CASE-LAR-12016-1] c 39 N78-15512
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
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[NASA-CASE-NPO-14363-1] c 39 N81-25400
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[NASA-CASE-LAR-12772-1] c 33 N83-16626
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
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[NASA-CASE-LAR-13797-1] c 35 N88-30108
Wind tunnel balance
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STRAIN MEASUREMENT
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
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[NASA-CASE-LAR-13705-1] c 39 N88-25011
STRAIN RATE
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
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[NASA-CASE-LAR-13233-1] c 05 N84-33400
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[NASA-CASE-LAR-13630-1] c 08 N88-23809
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STRAPS
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
Load limiting, energy absorbing, lightweight debris catcher
[NASA-CASE-MSC-21562-1] c 16 N91-24216
STRATIGRAPHY
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
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Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
STRESS ANALYSIS
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method and apparatus for characterizing residual stress in ferromagnetic materials
[NASA-CASE-LAR-14239-1] c 26 N91-13527
STRESS CONCENTRATION
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

STRESS CORROSION
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
STRESS MEASUREMENT
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
STRESS RELAXATION
Method for alleviating thermal stress damage in laminates --- metal matrix composites
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STRESS RELIEVING
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
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[NASA-CASE-LAR-14556-1] c 36 N91-25392
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[NASA-CASE-FRC-10063] c 01 N71-12217
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[NASA-CASE-MFS-28030-1] c 35 N86-25752
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[NASA-CASE-MFS-28110-1] c 37 N87-24689
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[NASA-CASE-MSC-21025-1] c 31 N87-25495
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Compliant hydrodynamic fluid journal bearing
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[NASA-CASE-LAR-13255-1] c 02 N87-16793
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[NASA-CASE-NPO-12142-1] c 38 N76-28563
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[NASA-CASE-XMS-05303] c 07 N69-27462
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[NASA-CASE-XNP-02029] c 14 N70-41955
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[NASA-CASE-XLA-01807] c 15 N71-10799
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[NASA-CASE-NPO-10646] c 15 N71-28467
Fastener stretcher
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[NASA-CASE-XLA-11028-1] c 24 N74-27035
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[NASA-CASE-XHQ-02146] c 18 N75-27040
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
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[NASA-CASE-LAR-12482-1] c 37 N82-32732
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[NASA-CASE-LAR-13009-2] c 37 N87-22976
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[NASA-CASE-MFS-14741] c 09 N70-20737
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[NASA-CASE-XMF-00479] c 14 N70-34794
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[NASA-CASE-XLA-03135] c 32 N71-16428
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[NASA-CASE-MSC-12279-1] c 15 N70-35679
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[NASA-CASE-NPO-11751] c 07 N73-24176
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[NASA-CASE-LAR-11900-1] c 37 N79-14382
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767
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Safety-type locking pin
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[NASA-CASE-MFS-20299] c 15 N72-11392
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[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
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[NASA-CASE-MSC-14903-3] c 27 N80-24438
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[NASA-CASE-NPO-16103-1] c 27 N85-29043
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[NASA-CASE-ARC-10912-1] c 34 N77-19353
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[NASA-CASE-NPO-10424-1] c 27 N81-24258
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[NASA-CASE-ARC-11040-2] c 24 N78-27184
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Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Apparatus for intercalating large quantities of fibrous structures
[NASA-CASE-LEW-15077-2] c 24 N91-28289
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[NASA-CASE-LEW-13570-1] c 33 N84-16452
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
Millimeter-wave monolithic diode-grid frequency multiplier
[NASA-CASE-NPO-17258-1-CU] c 33 N91-14551
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Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
SUBREFLECTORS
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
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Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
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[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
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[NASA-CASE-LEW-11890-1] c 05 N79-24976
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[NASA-CASE-XLA-07430] c 11 N72-22246
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[NASA-CASE-XNP-00595] c 15 N70-34967
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[NASA-CASE-XNP-00826] c 03 N71-20895
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[NASA-CASE-XNP-03413] c 03 N71-26726
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[NASA-CASE-GSC-12022-1] c 44 N76-28635
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[NASA-CASE-ARC-11039-1] c 74 N78-32854
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[NASA-CASE-FRC-10093-1] c 35 N80-20560

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[NASA-CASE-MSC-18107-1] c 27 N81-25209
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[NASA-CASE-LEW-13169-2] c 26 N82-30371
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[NASA-CASE-LAR-12363-1] c 35 N82-31659
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[NASA-CASE-LEW-13131-1] c 44 N83-10494
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[NASA-CASE-MSC-18737-1] c 24 N83-13171
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[NASA-CASE-LEW-13132-1] c 27 N83-29388
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[NASA-CASE-LEW-13526-1] c 36 N84-22944
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[NASA-CASE-LEW-13639-2] c 26 N84-27855
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[NASA-CASE-LEW-13639-1] c 26 N84-33555
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[NASA-CASE-NPO-16155-1] c 44 N85-30475
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[NASA-CASE-MSC-20036-1] c 76 N85-33826
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[NASA-CASE-LEW-14057-1] c 24 N85-35233
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[NASA-CASE-LEW-13923-1] c 26 N85-35267
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[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
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[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
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[NASA-CASE-NPO-17235-1-CU] c 35 N90-21358
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[NASA-CASE-NPO-17723-1-CU] c 76 N90-26685
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[NASA-CASE-LEW-15020-2] c 24 N91-25202
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[NASA-CASE-LAR-14579-1] c 35 N91-28546
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[NASA-CASE-ARC-11873-2] c 25 N91-31258
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[NASA-CASE-LEW-15164-2] c 27 N91-32229

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[NASA-CASE-XNP-06031] c 15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothemal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

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[NASA-CASE-LAR-13638-1] c 31 N90-19427

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[NASA-CASE-NPO-16203-1] c 23 N85-35227

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[NASA-CASE-ARC-10099-1] c 18 N71-15469

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[NASA-CASE-NPO-16135-1] c 25 N83-24572

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[NASA-CASE-LAR-11042-1] c 33 N75-27252
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
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[NASA-CASE-LAR-12931-1] c 27 N84-22747
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[NASA-CASE-LAR-12858-2] c 27 N85-20124
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[NASA-CASE-LAR-12931-2] c 27 N86-21675
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[NASA-CASE-LAR-13316-1] c 27 N86-27450
Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
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[NASA-CASE-LAR-13910-2-CU] c 27 N91-31307

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Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
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[NASA-CASE-ARC-11097-1] c 25 N82-24312

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[NASA-CASE-ARC-10325] c 06 N72-25147

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[NASA-CASE-MSC-16258-1] c 45 N79-12584

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[NASA-CASE-ARC-11243-2] c 23 N85-33187

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[NASA-CASE-XGS-04765] c 08 N71-18693

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[NASA-CASE-NPO-13921-1] c 44 N79-14526

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[NASA-CASE-XMS-06064] c 05 N71-23096

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[NASA-CASE-HQN-10781] c 23 N71-30292
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[NASA-CASE-KSC-11010-1] c 74 N79-12890
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[NASA-CASE-NPO-14936-1] c 47 N83-32232
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[NASA-CASE-XLE-02062-1] c 20 N80-14188
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[NASA-CASE-LEW-12995-1] c 37 N84-33808

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Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

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[NASA-CASE-XAC-02407] c 14 N69-27423
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[NASA-CASE-XLE-02824] c 03 N69-39890
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578

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Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
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[NASA-CASE-MFS-28282-1] c 76 N88-29602
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996
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[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Improved superconducting bearings
[NASA-CASE-GSC-13346-1] c 37 N91-28578
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

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[NASA-CASE-XMF-01099] c 14 N71-15969
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[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
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Method of preforming and assembling superconducting circuit elements
[NASA-CASE-LAR-14395-1-CU] c 33 N91-28490
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529

SUPERCOOLING
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650

SUPERCRITICAL FLUIDS
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

SUPERCRITICAL PRESSURES
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

SUPERFLUIDITY
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575

SUPERHEATING
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667

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[NASA-CASE-NPO-14519-1] c 32 N80-23524

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Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

SUPERPLASTICITY
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[NASA-CASE-FRC-11026-1] c 24 N82-24296

SUPERSATURATION
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

SUPERSONIC AIRCRAFT
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156

SUPERSONIC COMBUSTION
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

SUPERSONIC DRAG
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

SUPERSONIC FLIGHT
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
SUPERSONIC FLOW
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Compression pylon
[NASA-CASE-LAR-13777-1] c 05 N90-20078
Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159
SUPERSONIC INLETS
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
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Water cooled static pressure probe
[NASA-CASE-LAR-14340-1-CU] c 35 N91-13684
SUPERSONIC NOZZLES
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
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[NASA-CASE-ARC-10977-1] c 07 N80-32392
SUPERSONIC SPEED
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
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[NASA-CASE-LAR-11552-1] c 35 N76-14429
SUPERSONIC TRANSPORTS
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
SUPERSONIC WIND TUNNELS
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
SUPPLYING
Integrated launch and emergency vehicle system
[NASA-CASE-LAR-13780-1] c 18 N91-13481
SUPPORT INTERFERENCE
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
SUPPORT SYSTEMS
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
SUPPORTS
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Expansible support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N91-14608
Post clamp
[NASA-CASE-LEW-14862-1] c 37 N91-14617
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N91-21541
Alignment positioning mechanism
[NASA-CASE-MSC-21502-1] c 37 N91-21543
SUPPRESSORS
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
SURFACE ACOUSTIC WAVE DEVICES
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
SURFACE CRACKS
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
SURFACE DEFECTS
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
SURFACE DIFFUSION
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
SURFACE DISTORTION
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
SURFACE FINISHING
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
SURFACE GEOMETRY
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
SURFACE IONIZATION
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
SURFACE LAYERS
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Pretreatment of lubricated surfaces with sputtered *cadmium oxide*
[NASA-CASE-LEW-14474-1] c 27 N91-28423
SURFACE PROPERTIES
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
SURFACE REACTIONS
Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296
Etching method for photoresists or polymers
[NASA-CASE-ARC-11873-2] c 25 N91-31258

SURFACE ROUGHNESS
Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE VEHICLES
Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SURFACE WAVES
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

SURFACES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840

SURGES
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

SURVIVAL EQUIPMENT
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096

SUSPENDING (HANGING)
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N90-23242
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N91-14508
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176

SUSPENSION SYSTEMS (VEHICLES)
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SWEAT
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT
High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

SWELLING
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEPT FORWARD WINGS
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

SWEPT WINGS
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

SWIRLING
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236

SWITCHES
Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Monolithic mm-wave phase shifter using optically activated superconducting switches
[NASA-CASE-LEW-14878-1] c 74 N91-13996
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537
Synchronous demodulator
[NASA-CASE-GSC-13179-1] c 33 N91-26438
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

SWITCHING
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Long period pseudo random number sequence generator
[NASA-CASE-NPO-17241-1-CU] c 33 N90-23636
Asymmetric soft-error resistant memory
[NASA-CASE-NPO-17394-1-CU] c 60 N91-31810

SWITCHING CIRCUITS
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Switching circuit employing regeneratively connected *complementary transistors* Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814
Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
Optical shutter switching matrix
[NASA-CASE-KSC-11392-1] c 74 N90-22383

SWITCHING THEORY
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Double swivel toggle release
[NASA-CASE-MSC-21436-1] c 37 N90-21390

SYMBOLS
Multiple symbol differential detection
[NASA-CASE-NPO-17896-1-CU] c 32 N91-27439

SYNAPSES
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

SYNCHRONISM
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
Digitized synchronous demodulator
[NASA-CASE-GSC-13237-1] c 33 N91-14550
Synchronized computational architecture for generalized bilateral control of robot arms
[NASA-CASE-NPO-17401-1-CU] c 63 N91-31885

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[NASA-CASE-XNP-00777] c 10 N71-19469
Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
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[NASA-CASE-KSC-10393] c 09 N72-21247

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Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
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[NASA-CASE-KSC-10002] c 10 N71-25865
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[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
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[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

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Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
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[NASA-CASE-NPO-13374-1] c 33 N75-19524

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[NASA-CASE-GSC-10087-2] c 21 N71-13958
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[NASA-CASE-XGS-01022] c 07 N71-16088
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[NASA-CASE-GSC-10087-1] c 02 N71-19287
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
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[NASA-CASE-GSC-11211-1] c 03 N72-25020
Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265
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[NASA-CASE-NPO-14480-1] c 32 N80-20448

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Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

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[NASA-CASE-NPO-13899-1] c 27 N80-32515
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
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[NASA-CASE-ARC-11243-2] c 23 N85-33187
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[NASA-CASE-ARC-11522-2] c 27 N85-34280
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[NASA-CASE-ARC-11405-2] c 27 N86-19455
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[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
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[NASA-CASE-ARC-11402-3] c 23 N86-21582
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[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
The 5-(4-Ethynylophenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
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[NASA-CASE-LAR-13318-1] c 27 N87-14516
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[NASA-CASE-LAR-13118-2] c 27 N87-16907
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[NASA-CASE-ARC-11511-2] c 27 N87-21112
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[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
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[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
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Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
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Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
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[NASA-CASE-LAR-13988-1] c 23 N89-11814
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[NASA-CASE-LAR-14194-1] c 24 N90-15148
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[NASA-CASE-LAR-14162-1] c 27 N90-15259
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
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[NASA-CASE-MSC-21487-1] c 25 N90-16887
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[NASA-CASE-LAR-13821-1] c 27 N90-16950
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[NASA-CASE-LEW-14346-1] c 23 N90-19300
The 1-((diorganooxyphosphonyl)-methyl)-2,4- and -2,6-diamido benzenes
[NASA-CASE-ARC-11425-4] c 23 N90-20133
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[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180
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[NASA-CASE-LAR-13965-1-CU] c 23 N90-21118
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[NASA-CASE-MFS-26047-1] c 29 N90-21209
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[NASA-CASE-LEW-14345-2] c 25 N90-23497
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[NASA-CASE-LAR-14188-1] c 27 N90-23545
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[NASA-CASE-LAR-13902-1] c 27 N90-23546
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[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
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[NASA-CASE-LAR-14145-1] c 27 N90-26954
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[NASA-CASE-LAR-14198-1] c 27 N90-26956
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[NASA-CASE-LAR-14330-1-CU] c 27 N91-13560
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419
Ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N91-15402
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[NASA-CASE-LEW-14345-3] c 23 N91-17141
Poly(1,3,4-oxadiazoles) via aromatic nucleophilic displacement
[NASA-CASE-LAR-14427-1] c 23 N91-23237
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[NASA-CASE-LEW-14345-4] c 23 N91-25185
Polyimides prepared from 3,5-diamino benzo trifluoride
[NASA-CASE-LAR-14206-1] c 27 N91-28425

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[NASA-CASE-XGS-02317] c 09 N71-23525

SYNTHETIC APERTURE RADAR
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
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[NASA-CASE-NPO-15024-1] c 32 N84-27951
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
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[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
Method for providing a polarization filter for processing synthetic aperture radar image data
[NASA-CASE-NPO-17904-1-CU] c 32 N91-13594
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642
System and method for measuring ocean surface currents at locations remote from land masses using synthetic aperture radar
[NASA-CASE-NPO-17937-1-CU] c 43 N91-21621
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

SYNTHETIC FIBERS
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

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[NASA-CASE-NPO-14315-1] c 27 N81-17261
Solar heated fluidized bed gasification system
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[NASA-CASE-XNP-06508] c 18 N69-39895
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[NASA-CASE-ARC-11321-1] c 27 N81-27272
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[NASA-CASE-LAR-10423-1] c 23 N82-29358
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Acetylene terminated aspartimides and resins therefrom
[NASA-CASE-LAR-14188-1] c 27 N90-23545
N-(3-ethynylphenyl)maleimide
[NASA-CASE-LAR-14188-2] c 23 N91-14419

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[NASA-CASE-ARC-11176-2] c 27 N81-27271

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Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

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[NASA-CASE-MFS-23513-1] c 74 N79-11865

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[NASA-CASE-XGS-08259] c 14 N71-23698
Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504
Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

SYSTEMS ANALYSIS
Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

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Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
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[NASA-CASE-XLA-02079] c 12 N71-16894
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[NASA-CASE-XMS-10984-1] c 10 N71-19417
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
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[NASA-CASE-XMF-06065] c 15 N71-20395
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[NASA-CASE-XMS-02009] c 33 N71-20834
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[NASA-CASE-XGS-03501] c 09 N71-20864
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
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[NASA-CASE-XLA-03660] c 15 N71-21060
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[NASA-CASE-XMF-03212] c 15 N71-22721
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[NASA-CASE-XMS-04292] c 15 N71-22722
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[NASA-CASE-XMF-01083] c 15 N71-22723
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[NASA-CASE-XLA-02050] c 31 N71-22968
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[NASA-CASE-XLA-03132] c 31 N71-22969
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[NASA-CASE-XNP-01747] c 15 N71-23024
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[NASA-CASE-XNP-08877] c 15 N71-23025
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841

Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
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[NASA-CASE-MFS-23349-1] c 44 N79-23481
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
Convergent strand array liquid pumping system
[NASA-CASE-NPO-17301-1-CU] c 31 N90-23587

SYSTOLIC ARRAYS
Systolic VLSI *array for implementing the Kalman filter* algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

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TABS (CONTROL SURFACES)
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Robotic tool change mechanism
[NASA-CASE-GSC-13239-1] c 37 N91-31656

TACHOMETERS
Digital cardiotachometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TACTILE SENSORS (ROBOTICS)
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921

TAIL ASSEMBLIES
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

TAKEOFF
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Airplane takeoff and landing performance monitoring system
[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

TANGENTS
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

TANK GEOMETRY
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

TANKERS
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

TANKS (COMBAT VEHICLES)
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TANKS (CONTAINERS)
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
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[NASA-CASE-MSC-21059-2] c 35 N91-15511

TANTALUM
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

TANTALUM ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182

TANTALUM CARBIDES
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

TANTALUM OXIDES
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

TAPE RECORDERS
Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

TAPERED COLUMNS
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

TAPERING
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

TAPES
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

TARGET ACQUISITION
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

TARGET RECOGNITION
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

TARGET SIMULATORS
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TARGETS
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Apparatus for precision focusing and positioning of a beam waist on a target
[NASA-CASE-ARC-11916-1-SB] c 74 N91-14002
Standard remote manipulator system docking target augmentation for automated docking
[NASA-CASE-MFS-28419-1] c 18 N91-27200

TECHNOLOGY UTILIZATION
Induction-type metal detector with increased scanning area capability
[NASA-CASE-KSC-11386-1] c 35 N90-22023

TECTONICS
Method for detecting surface motions and mapping small terrestrial or planetary surface deformations with synthetic aperture radar
[NASA-CASE-NPO-17831-1-CU] c 43 N91-14642

TEETH
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

TEFLON (TRADEMARK)
Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

TELECOMMUNICATION
Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

TELEMETRY
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N91-14371

TELEOPERATORS
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Telerobot control system
[NASA-CASE-NPO-18116-1-CU] c 37 N91-32509
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510

TELEPHONES
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

TELEPHONY
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELESCOPES
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Rotable accurate reflector system for telscopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Method and apparatus for phasing segmented mirror arrays
[NASA-CASE-NPO-18095-1-CU] c 74 N91-32923

TELETYPEWRITER SYSTEMS
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS
Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

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Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

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Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840

TELEVISION TRANSMISSION
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

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Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

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Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N91-14537

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Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

TEMPERATURE EFFECTS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
Fluid flow control value Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
Pressure rig for repetitive casting
[NASA-CASE-LAR-14050-1] c 31 N90-21216
Flexible diaphragm-extreme temperature usage
[NASA-CASE-MSC-20797-2] c 35 N91-21494

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Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT

Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N90-22770
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-3] c 35 N91-21495
Plug-type heat flux gauge
[NASA-CASE-LEW-14967-1] c 35 N91-31608

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Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580

TEMPERATURE PROBES

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[NASA-CASE-XNP-00449] c 14 N70-35220
Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
Liquid cooled supersonic total temperature probe
[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159

TEMPERATURE PROFILES

Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Microwave temperature profiler for clear air turbulence prediction
[NASA-CASE-NPO-18115-1-CU] c 47 N91-23662

TEMPERATURE SENSORS

Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
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[NASA-CASE-XNP-09701] c 14 N71-26475
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
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Wind tunnel balance
[NASA-CASE-ARC-11877-1-SB] c 09 N91-14357

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Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
Method of insetting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N90-25197

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Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Imide/arylene ether copolymers
[NASA-CASE-LAR-14159-1-CU] c 27 N90-26953
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562

TENSILE STRENGTH

Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
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Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
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TENSILE TESTS

Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528

Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Device for tensioning test specimens within an hermetically sealed chamber
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Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N91-27175

TENSION
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615

TENSORS
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

TERMINAL GUIDANCE
Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

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[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

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Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

TERRAIN ANALYSIS
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Improving the geometric fidelity of imaging systems employing sensor arrays
[NASA-CASE-NPO-17970-1-CU] c 43 N90-26384

TEST CHAMBERS
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

TEST EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
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[NASA-CASE-LAR-13629-1] c 09 N91-14356
Slow positron beam generator for lifetime studies
[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936

TEST FACILITIES
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[NASA-CASE-XLE-00252] c 11 N70-34844
High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
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[NASA-CASE-NPO-12109] c 11 N72-22245

TEST STANDS
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884

TEST VEHICLES
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

TETHERED SATELLITES
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

TETHERING
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

TETHERLINES
Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

TETRAETHYL ORTHOSILICATE
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

TETRAPHENYLS
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

TEXTILES
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

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Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

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Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
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[NASA-CASE-LEW-13028-1] c 27 N82-33521
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

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Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

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Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525

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Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

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[NASA-CASE-XMS-03694-1] c 54 N82-29002

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Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Heat transfer device and method of making the same
[NASA-CASE-LEW-14162-1] c 34 N91-13668
Heat transfer device
[NASA-CASE-LEW-14162-2] c 24 N91-25201
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582

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Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

THERMAL CONTROL COATINGS
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
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[NASA-CASE-LAR-10805-2] c 34 N77-18382
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Composite thermal barrier coating
[NASA-CASE-LEW-14999-1] c 24 N91-13500
Metallic seal for thermal barrier coating systems
[NASA-CASE-LEW-15020-1] c 27 N91-15412
Method of applying a thermal barrier coating system to a substrate
[NASA-CASE-LEW-15020-2] c 24 N91-25202
Method of preparing a thermal barrier coating
[NASA-CASE-LEW-14999-2] c 27 N91-26376

THERMAL DEGRADATION
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-2-SB] c 27 N90-21177

THERMAL DIFFUSION
Crystal growth in a microgravity environment
[NASA-CASE-MFS-28473-1] c 76 N91-26968

THERMAL DIFFUSIVITY
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

THERMAL EMISSION
Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N91-25296

THERMAL ENERGY
Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Panel for selectively absorbing solar thermal energy and the method of producing said panel
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Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
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[NASA-CASE-NPO-13510-1] c 44 N77-32581
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Thermal power transfer system using applied potential difference to sustain operating pressure difference
[NASA-CASE-NPO-18034-1-CU] c 44 N91-13796
Small particle selective emitter
[NASA-CASE-LEW-14731-1] c 44 N91-13802
Solar thermal energy receiver
[NASA-CASE-LEW-14949-1] c 44 N91-23617

THERMAL EXPANSION
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N90-25196
Thermal compensating mount
[NASA-CASE-LAR-14207-1] c 35 N91-14590
Method of fabricating composite structures
[NASA-CASE-MFS-28390-1] c 24 N91-15333
Flush mounting of thin film sensors
[NASA-CASE-LAR-14446-1] c 31 N91-28454

THERMAL FATIGUE
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Process for the preparation of polycarboranylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N90-23566
Ceramic coatings on smooth surfaces
[NASA-CASE-LEW-15164-2] c 27 N91-32229

THERMAL MAPPING
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

THERMAL PLASMAS
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

THERMAL PROTECTION
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
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[NASA-CASE-XNP-08961] c 14 N71-24809
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[NASA-CASE-XNP-01310] c 33 N71-28852
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[NASA-CASE-LEW-13324-2] c 24 N85-21266
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[NASA-CASE-LAR-13384-1] c 27 N86-20561
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[NASA-CASE-ARC-11512-2] c 27 N86-32568
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[NASA-CASE-ARC-11428-2] c 27 N87-16909
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[NASA-CASE-ARC-11533-3] c 27 N87-24564
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[NASA-CASE-XLA-02758] c 14 N71-18481

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[NASA-CASE-XMS-09632-1] c 05 N71-11203
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[NASA-CASE-HQN-10364] c 06 N71-27363
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[NASA-CASE-LEW-10219-1] c 18 N71-28729
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[NASA-CASE-ARC-10592-1] c 27 N74-21156
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[NASA-CASE-ARC-10592-2] c 27 N76-32315
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[NASA-CASE-LEW-12658-1] c 71 N79-14871
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[NASA-CASE-XMF-02526-1] c 27 N79-21190
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[NASA-CASE-LEW-12053-2] c 27 N79-28307
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[NASA-CASE-ARC-11405-1] c 27 N84-27884
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[NASA-CASE-LEW-13864-1] c 27 N86-19457
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[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

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[NASA-CASE-LAR-10270-1] c 32 N72-25877
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
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[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in *laminates*
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
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[NASA-CASE-LAR-13009-1] c 37 N85-29285
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[NASA-CASE-LEW-14212-1] c 37 N88-23978

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THERMIONIC CONVERTERS
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[NASA-CASE-XLE-01015] c 03 N69-39898
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
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[NASA-CASE-NPO-10412] c 09 N71-28421
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[NASA-CASE-ARC-10050] c 03 N71-33409
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[NASA-CASE-NPO-10542] c 09 N72-27228
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[NASA-CASE-LEW-10950-1] c 33 N74-27683
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[NASA-CASE-NPO-13308-1] c 36 N75-30524
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[NASA-CASE-NPO-13121-1] c 73 N77-18891
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[NASA-CASE-LEW-12950-1] c 34 N82-11399
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[NASA-CASE-XMF-05843] c 03 N71-11055
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
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Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

THERMIONIC EMITTERS
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646

THERMIONIC POWER GENERATION
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
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[NASA-CASE-LEW-14077-1] c 44 N85-34441

THERMISTORS
Matched thermistors for microwave power meters Patent
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[NASA-CASE-XGS-01245-1] c 35 N79-33449

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[NASA-CASE-NPO-15015-1] c 25 N82-28368

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Heat detection and *compositions and devices therefor*
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122

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[NASA-CASE-LAR-10105-1] c 34 N74-15652

THERMOCOUPLES
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
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[NASA-CASE-MFS-06074] c 15 N71-20393
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[NASA-CASE-XLA-01551] c 14 N71-22989
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[NASA-CASE-XNP-01659] c 14 N71-23039
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[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
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[NASA-CASE-XLE-05230-2] c 14 N73-13417
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
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[NASA-CASE-LEW-11072-1] c 14 N73-24472
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[NASA-CASE-LEW-11072-2] c 35 N76-15434
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[NASA-CASE-NPO-13540-1] c 35 N77-14409
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Thermocouples of molybdenum and iridium alloys for *more stable vacuum-high temperature performance*
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
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[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
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[NASA-CASE-LEW-14967-2] c 35 N91-23460
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[NASA-CASE-LAR-14435-1-CU] c 09 N91-26159
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[NASA-CASE-LEW-14967-1] c 35 N91-31608

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[NASA-CASE-LAR-12148-1] c 44 N82-24640

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Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483

THERMODYNAMIC PROPERTIES
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
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[NASA-CASE-XNP-06503] c 23 N71-29049
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568

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[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351

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Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
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[NASA-CASE-XER-09521] c 09 N72-12136
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

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Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
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[NASA-CASE-XGS-05718] c 26 N71-16037
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

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Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612

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Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884
Flexible thermal apparatus for mounting of thermoelectric cooler
[NASA-CASE-NPO-17806-1-CU] c 31 N91-27385

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[NASA-CASE-LAR-10668-1] c 06 N73-16106
Thermoluminescent aerosol analysis
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Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

THERMOMETERS
Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

THERMOPHYSICAL PROPERTIES
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

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Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

THERMOPLASTIC FILMS
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

THERMOPLASTIC RESINS
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
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[NASA-CASE-LAR-13719-1] c 37 N89-12867
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
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[NASA-CASE-LAR-14459-1] c 24 N91-15334

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[NASA-CASE-LAR-11828-1] c 27 N78-32261
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
A tough high performance composite matrix
[NASA-CASE-LAR-14338-1] c 24 N90-26881
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

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Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

THERMOSETTING RESINS
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
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[NASA-CASE-LAR-12775-1] c 27 N83-28240
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

THERMOSTATS
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

THICK FILMS
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762

THICKNESS
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150

THIN FILMS
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
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[NASA-CASE-XGS-02812] c 09 N71-19466
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170

Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
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[NASA-CASE-LAR-11053-1] c 25 N74-18551
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
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[NASA-CASE-LEW-12083-1] c 37 N78-13436
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
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[NASA-CASE-NPO-15805-1] c 74 N84-28590
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[NASA-CASE-NPO-15753-1] c 27 N84-33589
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
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[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N91-15424
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[NASA-CASE-LEW-15222-1] c 76 N91-26966
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[NASA-CASE-LAR-14250-1-SB] c 72 N91-27936
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[NASA-CASE-LAR-14446-1] c 31 N91-28454
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755

THIN PLATES
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
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[NASA-CASE-MSC-19666-1] c 37 N78-17383
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[NASA-CASE-LAR-13887-1] c 36 N91-23472

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Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
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[NASA-CASE-NPO-16635-1-CU] c 31 N91-32240

THIN WALLS
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[NASA-CASE-XLE-00144] c 28 N70-34860
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[NASA-CASE-LAR-10546-1] c 11 N72-25287
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[NASA-CASE-MFS-14216] c 14 N73-13418
Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059

THORIUM FLUORIDES
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[NASA-CASE-XNP-02340] c 23 N69-24332

THORIUM OXIDES
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

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[NASA-CASE-XMF-04966] c 14 N71-17658
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254

THREE AXIS STABILIZATION
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[NASA-CASE-GSC-12970-1] c 08 N88-23808

THREE DIMENSIONAL FLOW
Three-dimensional laser velocimeter simultaneity detector
[NASA-CASE-ARC-11876-1] c 36 N90-25340

THREE DIMENSIONAL MODELS
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
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[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
Digital data registration and differencing compression system
[NASA-CASE-SSC-00010-1] c 82 N91-23976

THREE DIMENSIONAL MOTION
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
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[NASA-CASE-MSC-21416-1] c 74 N91-32922

THRESHOLD GATES
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

THRESHOLD LOGIC
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[NASA-CASE-XLA-07497] c 09 N71-12514

THROATS
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

THROTTLING
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[NASA-CASE-SSC-00004-1] c 37 N91-14609

THRUST AUGMENTATION
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[NASA-CASE-XLA-00154] c 28 N70-33374
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

THRUST BEARINGS
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

THRUST CHAMBER PRESSURE
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152

THRUST CHAMBERS
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288
Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
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[NASA-CASE-LEW-14846-2] c 20 N91-26200

THRUST CONTROL
Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Heated porous plug microthrustor
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

THRUST LOADS
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

THRUST MEASUREMENT
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

THRUST REVERSAL
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

THRUST VECTOR CONTROL
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

THRUST-WEIGHT RATIO
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

THULIUM
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N91-15528

THYRISTORS
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661

TILES
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456

Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
Thermally activated retainer means
[NASA-CASE-MSC-21793-1] c 16 N91-28186

TILT WING AIRCRAFT
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

TIME
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

TIME CONSTANT
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

TIME DEPENDENCE
Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

TIME DISCRIMINATION
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

TIME DIVISION MULTIPLEXING
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
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[NASA-CASE-GSC-10131-1] c 07 N71-24624
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

TIME FUNCTIONS
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659

TIME LAG
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

TIME MEASUREMENT
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

TIME MEASURING INSTRUMENTS
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

TIME OF FLIGHT SPECTROMETERS
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041

TIME SERIES ANALYSIS
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

TIME SHARING
Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507

TIME SIGNALS
System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

TIMING DEVICES
Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

TIN OXIDES
Process for making a noble metal on tin oxide catalyst
[NASA-CASE-LAR-13741-1-SB] c 25 N90-20180

TIPS
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

TIRES
Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455

TISSUES (BIOLOGY)
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
Three-dimensional cell to tissue assembly process
[NASA-CASE-MSC-21559-1] c 51 N91-13860
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N91-21701
Horizontally rotated cell culture system with a coaxial tubular oxygenator
[NASA-CASE-MSC-21294-1] c 51 N91-30667

TITANATES
Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532

TITANIUM
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

TITANIUM ALLOYS
Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Oxidation resistant coatings for titanium alloys and titanium alloy matrix composites
[NASA-CASE-LEW-15155-1] c 27 N91-26375

TITANIUM NITRIDES
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

TITANIUM OXIDES
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

TOILETS
Hydraulic tilting device
[NASA-CASE-SSC-00008-1] c 37 N91-13733
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747

TOLERANCES (MECHANICS)
Universal restrainer and joint Patent
[NASA-CASE-XNP-02278] c 15 N71-28951
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

TOLUENE
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

TOMOGRAPHY
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

TOOLS
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

TOOTH DISEASES
Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

TOPOGRAPHY
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
Generation of topographic terrain models utilizing synthetic aperture radar and surface level data
[NASA-CASE-GSC-13212-1] c 43 N91-32546

TORCHES
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
TOROIDAL SHELLS
Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521
TOROIDS
Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539
TORQUE
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Isolation coupling arrangement for a torque measuring system
[NASA-CASE-XLA-04897] c 15 N72-22482
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
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[NASA-CASE-MFS-23828-1] c 33 N82-26569
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[NASA-CASE-LAR-12751-1] c 15 N84-16231
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
Metallic threaded composite fastener
[NASA-CASE-MSC-21580-1] c 37 N91-23491
Roller locking brake
[NASA-CASE-GSC-13376-1] c 37 N91-28579
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Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
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[NASA-CASE-NPO-17134-1-CU] c 33 N91-31528
TORQUE SENSORS (ROBOTICS)
Direct drive robotic hand
[NASA-CASE-NPO-17917-1-CU] c 37 N90-26339
Torque sensor having a spoked sensor element support structure
[NASA-CASE-NPO-17461-1-CU] c 35 N91-17350
TORQUEMETERS
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
TORSION
Torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N91-21176
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[NASA-CASE-LAR-14272-1-CU] c 14 N91-28184
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[NASA-CASE-MSC-12397-1] c 05 N72-25119
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[NASA-CASE-ARC-11100-1] c 54 N78-31736
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[NASA-CASE-ARC-11616-1] c 54 N86-28618
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Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
TOUGHNESS
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
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[NASA-CASE-ARC-11427-2] c 27 N86-27451
TOWERS
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
TOXICITY
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
TOXICITY AND SAFETY HAZARD
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
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Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
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[NASA-CASE-NPO-10144] c 14 N71-17701
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
TRACE ELEMENTS
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
TRACKED VEHICLES
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
TRACKING (POSITION)
Plurality of photosensitive cells on a pyramidical base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Motion detection, novelty filtering, and target tracking using an interferometric technique with a GaAs phase conjugate mirror
[NASA-CASE-NPO-17784-1-CU] c 74 N91-13998
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N91-21542
Optical joint correlator for real-time image tracking and retinal surgery
[NASA-CASE-MSC-21509-1] c 74 N91-25840
TRACKING FILTERS
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
TRACKING RADAR
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
TRACKING STATIONS
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
TRACTION
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
TRAFFIC CONTROL
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
TRAILERS
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
TRAILING EDGES
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
TRAILING-EDGE FLAPS
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
TRAINING DEVICES
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
TRAINING SIMULATORS
Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
TRAJECTORIES
Bilevel shared control for teleoperators
[NASA-CASE-NPO-17800-1-CU] c 37 N91-13724
A generalized compliant motion primitive
[NASA-CASE-NPO-18134-1-CU] c 37 N91-32510
TRAJECTORY ANALYSIS
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
TRAJECTORY CONTROL
Trajectory-correction propulsion system Patent
[NASA-CASE-XNP-01104] c 28 N70-39931
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
TRANSDUCERS
Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452
Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

Acoustical transducer calibrating system and apparatus
[NASA-CASE-FRC-10060-1] c 14 N73-27379
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
Lamina transducer coupler and method of making
[NASA-CASE-LAR-14361-1] c 71 N91-16707
Acoustophoresis method and apparatus
[NASA-CASE-LAR-13388-1] c 25 N91-28321

TRANSFER FUNCTIONS
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

TRANSFORMATIONS (MATHEMATICS)
Programmable remapper with single flow architecture
[NASA-CASE-MSC-21481-1] c 60 N91-13890

TRANSFORMERS
Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

TRANSIENT HEATING
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

TRANSIENT LOADS
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSISTOR AMPLIFIERS
Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

TRANSISTOR CIRCUITS
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

TRANSISTORS
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

TRANSITION FLOW
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

TRANSLATIONAL MOTION
Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Connection space reduction mechanism
[NASA-CASE-GSC-13220-1] c 37 N91-21525

TRANSLATORS
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N91-14587

TRANSMISSION LINES
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

TRANSMISSION LOSS
Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

TRANSMISSIONS (MACHINE ELEMENTS)
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

TRANSMISSIVITY
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

TRANSMITTANCE
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Electro-optical spin measurement system
[NASA-CASE-LAR-13629-1] c 09 N91-14356

TRANSMITTERS
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Miniature multichannel biotelemeter system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
Emergency locating transmitter
[NASA-CASE-GSC-12821-2] c 33 N91-31530

TRANSONIC SPEED
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

TRANSPARENCE
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362
Single layer multi-color luminescent display
[NASA-CASE-LAR-13616-1] c 74 N91-31950

TRANSPIRATION
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191

TRANSPONDERS
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

TRANSPORT VEHICLES
Bidirectional drive and brake mechanism
[NASA-CASE-MSC-21540-1] c 37 N91-32514

TRANSPORTATION
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

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Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

TRAPPED PARTICLES
Method and apparatus for determining time, direction, and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N91-14412

TRAPS
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652

TRAVELING WAVE AMPLIFIERS
Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

TRAVELING WAVE MASERS
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[NASA-CASE-XNP-05219] c 16 N71-15550
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[NASA-CASE-NPO-10548] c 16 N71-24831
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[NASA-CASE-NPO-13801-1] c 36 N78-18410

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[NASA-CASE-XGS-10518] c 16 N71-28554
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[NASA-CASE-LEW-13282-1] c 33 N82-24415
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[NASA-CASE-LEW-13981-2] c 33 N86-21742
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N90-22724

TRAVELING WAVES
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[NASA-CASE-NPO-11437] c 16 N72-28521

TRAYS
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[NASA-CASE-MFS-28507-1] c 76 N91-23933

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[NASA-CASE-ARC-10917-1] c 51 N78-27733

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[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

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Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
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[NASA-CASE-XMS-06497] c 14 N71-26244
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
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[NASA-CASE-GSC-10221-1] c 09 N72-23171
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[NASA-CASE-XLE-2529-3] c 33 N74-20859
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

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[NASA-CASE-XMF-00684] c 21 N71-21688

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[NASA-CASE-NPO-10714] c 06 N69-31244
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

TRIODES
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

TRITIUM
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728

TROPOPAUSE
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

TRUCKS
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

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Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
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[NASA-CASE-MSC-20676-1] c 18 N86-24729
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
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[NASA-CASE-LAR-13081-1] c 37 N86-32737
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[NASA-CASE-LAR-13113-1] c 31 N87-25492
Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N91-15544
Overcenter collet space station truss fastener
[NASA-CASE-MSC-21504-1] c 18 N91-21221
Apparatus for joining trusses
[NASA-CASE-MFS-28545-1] c 31 N91-25306
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N91-27199

TUBE GRIDS
Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444

TUBE HEAT EXCHANGERS
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518

TUBES
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

TUMBLING MOTION
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

TUMORS
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736

TUNABLE LASERS
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N91-14588
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N91-23472

TUNGSTEN
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197

Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

TUNGSTEN ALLOYS
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279

TUNING
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
Birefringent filter design
[NASA-CASE-LAR-13887-1] c 36 N91-23472

TUNNEL DIODES
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399

TUNNELING (EXCAVATION)
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and *departure*
[NASA-CASE-ARC-11317-1] c 35 N83-34272

TUNNELS
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N91-14374

TURBINE BLADES
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

TURBINE ENGINES
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Multi-heat addition turbine engine
[NASA-CASE-LEW-15094-1] c 07 N91-23180

TURBINE PUMPS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

TURBINE WHEELS
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116

TURBINES
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

TURBOCOMPRESSORS
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

TURBOFAN ENGINES
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating *annular acoustically porous elements in exhaust and inlet* ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

TURBOFANS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

TURBOGENERATORS
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Wingtip vortex turbine
[NASA-CASE-LAR-14116-1] c 05 N91-14345

TURBOJET ENGINE CONTROL
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

TURBOJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

TURBOMACHINE BLADES
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

TURBOMACHINERY
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

TURBOSHAFTS
Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

TURBULENCE
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N91-14562

TURBULENCE EFFECTS
Hydrodynamic skin-friction reduction
[NASA-CASE-LAR-14078-1-CU] c 34 N90-27071

TURBULENCE METERS
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

TURBULENT BOUNDARY LAYER
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

TURBULENT FLOW
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639

TURNSTILE ANTENNAS
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

TURRET
Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

TWISTING
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

TWO BODY PROBLEM
Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

TWO DIMENSIONAL BODIES
Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

TWO PHASE FLOW
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958

TYPEWRITERS
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

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U BENDS
Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
ULCERS
Indometh acin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
ULLAGE
Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
ULTRAHIGH FREQUENCIES
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
ULTRAHIGH VACUUM
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
ULTRAPURE METALS
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
ULTRASONIC AGITATION
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
ULTRASONIC CLEANING
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
ULTRASONIC FLAW DETECTION
Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
ULTRASONIC RADIATION
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N91-27914
ULTRASONIC SCANNERS
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885
ULTRASONIC TESTS
Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Rapid quantification of an internal property --- ultrasonic *determination of bladder urine quantity*
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160
ULTRASONIC WAVE TRANSDUCERS
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
ULTRASONIC WELDING
Ultrasonically bonded value assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
ULTRASONICS
Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
Pseudo continuous wave instrument --- ultrasonics
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Leak detector wherein a probe is monitored with ultraviolet radiation Patent
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Light shield and cooling apparatus --- high intensity ultraviolet lamp
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Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
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Ultraviolet and thermally stable polymer compositions
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Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
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High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
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[NASA-CASE-MFS-20332] c 05 N72-20097
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Beam connector apparatus and assembly
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[NASA-CASE-NPO-13620-1] c 27 N77-30236
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[NASA-CASE-NPO-14101-1] c 52 N80-14687
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[NASA-CASE-NPO-10830-1] c 27 N81-15104

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Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
Determination of antimicrobial susceptibilities on infected urines without isolation
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Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
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[NASA-CASE-MSC-16433-1] c 52 N81-24711
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[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
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[NASA-CASE-XNP-06503] c 23 N71-29049
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
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Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
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[NASA-CASE-LAR-14588-1-CU] c 74 N91-23889
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[NASA-CASE-XAC-00472] c 15 N70-40180
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[NASA-CASE-XNP-09699] c 06 N71-24607
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489
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[NASA-CASE-LEW-10330-1] c 09 N72-27226
Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
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[NASA-CASE-MFS-25242-1] c 35 N83-29650
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Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
VACUUM CHAMBERS
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
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[NASA-CASE-LEW-11531] c 15 N71-14932
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[NASA-CASE-XMF-07488] c 11 N71-18773
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Evacuation valve
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Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
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[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
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Ion generator and ion application system
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Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
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A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
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High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
VACUUM FURNACES
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
VACUUM GAGES
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[NASA-CASE-XLA-02758] c 14 N71-18481
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
VACUUM MELTING
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[NASA-CASE-MFS-20710] c 11 N72-23215
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Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
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Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
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Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
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Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
VALUE
High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
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Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
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[NASA-CASE-XNP-01962] c 32 N70-41370
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
Apparatus for mixing solutions in low gravity environments
[NASA-CASE-MFS-26047-1] c 29 N90-21209
Valve for waste collection and storage
[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method of injecting fluid propellants into a rocket combustion chamber
[NASA-CASE-LEW-14846-2] c 20 N91-26200
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
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Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Rotary vane attenuator wherin rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
VAPOR DEPOSITION
A method for the deposition of beta-silicon carbide by isoepitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015

Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
Deposition of alloy films --- on irregulary shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
Method of fabricating germanium and gallium arsenide devices
[NASA-CASE-GSC-13265-1] c 76 N91-14066

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[NASA-CASE-XLE-01182] c 27 N71-15635
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Propellent mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

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Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

VAPOR TRAPS
Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

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Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

VAPORIZING
Gas liquefication and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
Hypervelocity impact shield
[NASA-CASE-MSC-21420-1] c 18 N90-26858
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135

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Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Drop deployment system for crystal growth apparatus
[NASA-CASE-MFS-28422-1] c 29 N91-17250

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Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

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Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

VARIABILITY
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

VARIABLE GEOMETRY STRUCTURES
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

VARIABLE THRUST
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

VARIATIONS
Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

VECTOR ANALYSIS
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

VECTOR CURRENTS
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

VECTOR QUANTIZATION
Pipeline synthetic aperture radar data compression utilizing systolic binary tree-searched architecture for vector quantization
[NASA-CASE-NPO-17941-1-CU] c 32 N91-13595

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Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

VECTORS (MATHEMATICS)
Method and apparatus for second-rank tensor generation
[NASA-CASE-NPO-17512-1-CU] c 74 N91-26918

VEGETATION GROWTH
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
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[NASA-CASE-NPO-15213-1] c 51 N83-17045

VEHICLE WHEELS
Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

VEHICLES
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

VEHICULAR TRACKS
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

VELOCITY
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

VELOCITY COUPLING
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

VELOCITY MEASUREMENT
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-ICU] c 35 N86-32695
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Laser velocimeter for near-surface measurements
[NASA-CASE-ARC-11917-1] c 35 N91-15520
Vaporizing particle velocimeter
[NASA-CASE-LAR-14685-1] c 02 N91-28135

VELOCITY MODULATION
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

VENTILATION
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

VENTILATORS
Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

VENTING
Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Passive venting technique for shallow cavities
[NASA-CASE-LAR-14031-1] c 05 N90-20079
System for venting gas from a liquid storage tank
[NASA-CASE-MSC-21253-1] c 31 N90-20254
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N91-27156

VENTURI TUBES
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

VENUS (PLANET)
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

VERTICAL FLIGHT
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

VERTICAL LANDING
Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

VERTICAL ORIENTATION
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
VERTICAL TAKEOFF AIRCRAFT
Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
VERY HIGH FREQUENCIES
VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614
VERY LARGE SCALE INTEGRATION
Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
VLSI single-chip (255,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N90-21061
VLSI binary updown counter
[NASA-CASE-NPO-17205-1-CU] c 60 N90-21525
VLSI architecture for a Reed-Solomon decoder
[NASA-CASE-NPO-17897-1-CU] c 33 N90-27040
Neural network with dynamically adaptable neurons
[NASA-CASE-NPO-17803-1-CU] c 62 N90-27385
VERY LONG BASE INTERFEROMETRY
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
VESTS
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
VIBRATION
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Suspension mechanism and method
[NASA-CASE-LAR-14142-1] c 37 N90-27116
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Noncircular rolling joints for vibrational reduction in slewing maneuvers
[NASA-CASE-LAR-14515-1-CU] c 37 N91-28580
VIBRATION DAMPING
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Dynamic tester for rotor seals and bearings
[NASA-CASE-MFS-28493-1] c 09 N91-25155
Linear mass actuator
[NASA-CASE-LAR-14352-1] c 37 N91-32511
VIBRATION EFFECTS
Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
VIBRATION ISOLATORS
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
VIBRATION MEASUREMENT
Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N91-14607
VIBRATION METERS
Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
VIBRATION MODE
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
VIBRATION SIMULATORS
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
VIBRATION TESTS
Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
VIBRATIONAL SPECTRA
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
VIDEO COMMUNICATION
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
VIDEO DATA
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
VIDEO EQUIPMENT
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102
Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341
Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400
VIDEO SIGNALS
Programmable scan/read circuitry for charge coupled device imaging detectors --- spcecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Real-time data compression of broadcast video signals
[NASA-CASE-LEW-14945-1] c 32 N91-13598
VIDEO TAPE RECORDERS
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
VIDEO TAPES
Generation of animation sequences of three dimensional models
[NASA-CASE-MSC-21379-1-SB] c 61 N90-27340
VIDICONS
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
VIEWING
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
Stereoscopic camera and viewing systems with undistorted depth presentation and reduced or eliminated erroneous acceleration and deceleration perceptions, or with perceptions produced or enhanced for special effects
[NASA-CASE-NPO-18028-1-CU] c 74 N91-24878
VINYL COPOLYMERS
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
VINYL POLYMERS
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
VINYLIDENE
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
VIRUSES
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
VISCOELASTICITY
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Tensile film clamps and mounting block for the rheovibron and autovibron viscoelastometer
[NASA-CASE-LAR-13696-1] c 37 N90-20409
Composite passive damping struts for large precision structures
[NASA-CASE-NPO-17914-1-CU] c 39 N91-13767

VISCOMETERS
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY
Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
A tough performance simultaneous semi-interpenetrating polymer network
[NASA-CASE-LAR-14339-1] c 27 N90-26955

VISCOUS DAMPING
Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

VISIBILITY
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
EMU helmet mounted display
[NASA-CASE-MSC-21460-1] c 54 N91-13879

VISIBLE SPECTRUM
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS
Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

VISUAL ACUITY
Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL AIDS
Visual aid for the hearing impaired
[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522

VISUAL CONTROL
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION
Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

VISUAL STIMULI
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

VITERBI DECODERS
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

VOICE COMMUNICATION
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612
Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

VOICE DATA PROCESSING
Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

VOIDS
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
Thermal treatment of silicon integrated circuit chips to prevent and heal voids in aluminum metallization
[NASA-CASE-NPO-17678-1-CU] c 76 N91-28014

VOLATILITY
Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

VOLT-AMPERE CHARACTERISTICS
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

VOLTAGE AMPLIFIERS
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

VOLTAGE CONTROLLED OSCILLATORS
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011
Dual physiological rate measurement instrument
[NASA-CASE-MSC-20078-3] c 52 N91-14709

VOLTAGE CONVERTERS (DC TO DC)
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

VOLTAGE GENERATORS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

VOLTAGE REGULATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
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[NASA-CASE-ARC-10197-1] c 33 N74-17929
Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
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[NASA-CASE-XGS-09186] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
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Voltage monitoring system
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VOLUME
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
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[NASA-CASE-MSC-21500-1] c 35 N91-21493

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Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

VOMITING
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

VORTEX BREAKDOWN
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

VORTEX GENERATORS
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
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[NASA-CASE-LAR-11868-2] c 08 N79-14108
Vortex motion phase separator for zero gravity liquid transfer
[NASA-CASE-KSC-11387-1] c 29 N90-20236
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[NASA-CASE-LAR-14116-1] c 05 N91-14345
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[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Passive laminar flow control of crossflow vorticity
[NASA-CASE-LAR-13563-1] c 34 N91-23410
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[NASA-CASE-LAR-10489-1] c 31 N74-18124
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[NASA-CASE-NPO-13689-4] c 44 N82-28780
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[NASA-CASE-LEW-13401-1] c 44 N82-29709
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[NASA-CASE-LEW-13400-1] c 44 N82-31764
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[NASA-CASE-MFS-15670-1] c 33 N82-33634
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[NASA-CASE-LEW-13401-2] c 44 N83-32177
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[NASA-CASE-NPO-15530-1] c 76 N83-35888
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[NASA-CASE-GSC-12682-1] c 35 N84-33765
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[NASA-CASE-NPO-15786-1] c 76 N84-35112
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[NASA-CASE-NPO-15629-1] c 76 N84-35113
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[NASA-CASE-NPO-15483-1] c 37 N85-21650
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[NASA-CASE-LEW-14177-1] c 44 N86-32875
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[NASA-CASE-NPO-16784-1] c 33 N87-10231
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[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
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[NASA-CASE-KSC-11392-1] c 74 N90-22383
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[NASA-CASE-GSC-13265-1] c 76 N91-14066
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[NASA-CASE-LEW-15222-1] c 76 N91-26966
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[NASA-CASE-LEW-15223-1] c 76 N91-26967
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[NASA-CASE-NPO-18243-1-CU] c 36 N91-32489
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[NASA-CASE-MFS-28139-1] c 29 N87-18679
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[NASA-CASE-LAR-12259-2] c 54 N86-22112
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[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
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[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
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[NASA-CASE-LEW-13174-1] c 34 N83-27144
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[NASA-CASE-XLE-00164] c 15 N70-36411
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[NASA-CASE-GSC-12808-1] c 25 N85-21279
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
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[NASA-CASE-LAR-13968-1] c 71 N91-27913
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[NASA-CASE-XMS-10984-1] c 10 N71-19417
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[NASA-CASE-ERC-10125] c 09 N71-24893
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[NASA-CASE-XMF-03968] c 14 N71-27186
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[NASA-CASE-GSC-11095-1] c 14 N72-10375
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[NASA-CASE-LAR-10545-1] c 09 N72-21244
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[NASA-CASE-HQN-10703] c 21 N73-13643
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[NASA-CASE-ERC-10226-1] c 14 N73-16483
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
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[NASA-CASE-ARC-11317-1] c 35 N83-34272
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[NASA-CASE-LAR-13901-1-NP] c 52 N90-21519
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[NASA-CASE-NPO-17525-1-CU] c 60 N90-25583
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[NASA-CASE-GSC-13027-1-CU] c 35 N91-27522
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[NASA-CASE-GSC-12686-1] c 27 N83-34039
Method and apparatus for cleaning rubber deposits from airport runways and roadways
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[NASA-CASE-XMS-06761] c 05 N69-23192
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[NASA-CASE-MFS-20922] c 31 N72-20840
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[NASA-CASE-LAR-10365-1] c 05 N72-27102
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
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[NASA-CASE-MFS-20922-1] c 18 N74-22136
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[NASA-CASE-LAR-11071-1] c 35 N75-19611
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
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[NASA-CASE-MSC-21025-4] c 54 N91-14723
Method for waste collection and storage
[NASA-CASE-MSC-21025-2] c 54 N91-14724
Method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-3] c 54 N91-26747
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Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
WASTE HEAT
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
WASTE UTILIZATION
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
WASTE WATER
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
WATER
High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Procedure and apparatus for determination of water in *nitrogen tetroxide*
[NASA-CASE-NPO-10234] c 06 N72-17094
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
Water window imaging x ray microscope
[NASA-CASE-MFS-28485-1] c 35 N91-15519
Purification system
[NASA-CASE-MSC-21584-1] c 25 N91-24362
Method and apparatus for cleaning rubber deposits from airport runways and roadways
[NASA-CASE-LAR-14483-1] c 31 N91-28455
Biofilm monitoring coupon system and method of use
[NASA-CASE-MSC-21585-1] c 51 N91-31755
WATER FLOW
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
WATER INJECTION
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
WATER LANDING
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
WATER MANAGEMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
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[NASA-CASE-NPO-13567-1] c 44 N76-29701
WATER POLLUTION
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662

WATER QUALITY
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
WATER RECLAMATION
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
Whole body cleansing agent
[NASA-CASE-MSC-21589-1] c 54 N91-16566
WATER RESOURCES
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
WATER SPLITTING
Static feed water electrolysis subsystem development
[NASA-CASE-MSC-21577-1-SB] c 25 N91-23271
WATER TEMPERATURE
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
WATER TREATMENT
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Simultaneous treatment of SO2 containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N91-14662
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[NASA-CASE-MSC-21584-1] c 25 N91-24362
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[NASA-CASE-MSC-21763-1] c 51 N91-25570
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Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Wet atmospheric generation apparatus
[NASA-CASE-MFS-28177-1] c 35 N91-21496
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Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
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[NASA-CASE-MFS-23862-1] c 48 N80-18667
WATERPROOFING
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
WATERWAVE ENERGY CONVERSION
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
WAVE AMPLIFICATION
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
WAVE DIFFRACTION
Diffractoid grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
WAVE FRONT RECONSTRUCTION
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
WAVE FRONTS
Feedback controlled optics with wavefront compensation
[NASA-CASE-NPO-18194-1-CU] c 74 N91-32924
WAVE GENERATION
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
WAVE INTERACTION
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
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Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
WAVE REFLECTION
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
WAVE RESISTANCE
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
WAVE SCATTERING
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
Tissue simulating gel for medical research
[NASA-CASE-LAR-14036-1] c 27 N91-13562
WAVEFORMS
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
Measurement of waves in flows across a surface
[NASA-CASE-NPO-17479-1-CU] c 34 N91-13658
WAVEGUIDE ANTENNAS
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
WAVEGUIDE FILTERS
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
WAVEGUIDE WINDOWS
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
WAVEGUIDES
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
Universal nondestructive mm-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N91-14552
WAVELENGTHS
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
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Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
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Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Spectroscopic wear detector
[NASA-CASE-LEW-15200-1] c 20 N91-32167
WEAR INHIBITORS
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
WEAR RESISTANCE
Pretreatment of lubricated surfaces with sputtered cadmium oxide
[NASA-CASE-LEW-14474-1] c 27 N91-28423
WEATHERPROOFING
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
WEBS (SHEETS)
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
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[NASA-CASE-MFS-21556-1] c 35 N74-26945
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[NASA-CASE-XLE-00345] c 15 N70-38020
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[NASA-CASE-XMS-01624] c 15 N70-40062
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[NASA-CASE-XMS-01546] c 14 N70-40233
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[NASA-CASE-XNP-01390] c 28 N70-41275
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[NASA-CASE-XLA-03213] c 05 N71-11207
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[NASA-CASE-XLE-00586] c 15 N71-15968
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[NASA-CASE-XLA-01787] c 11 N71-16028
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[NASA-CASE-MFS-11132] c 15 N71-17649
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[NASA-CASE-XMS-06236] c 14 N71-21007
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[NASA-CASE-XMF-06515] c 14 N71-23227
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[NASA-CASE-ARC-10100-1] c 05 N71-24738
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[NASA-CASE-XNP-09770-3] c 11 N71-27036
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[NASA-CASE-XMF-09902] c 15 N72-11387
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[NASA-CASE-MFS-14405] c 15 N72-28495
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[NASA-CASE-LAR-10195-1] c 15 N73-19458
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[NASA-CASE-MFS-22102-1] c 54 N74-20725
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[NASA-CASE-MFS-21394-1] c 34 N74-27744
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[NASA-CASE-ARC-10722-1] c 51 N75-25503
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[NASA-CASE-LAR-11110-1] c 34 N75-26282
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[NASA-CASE-MSC-12611-1] c 12 N76-15189
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[NASA-CASE-MSC-14653-1] c 35 N77-19385
Method of crystallization --- in gravity-free environments
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[NASA-CASE-MFS-23642-1] c 20 N80-10278
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
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[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
Vortex motion phase separator for zero gravity liquid transfer
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[NASA-CASE-NPO-17511-1-CU] c 71 N91-14807
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[NASA-CASE-MSC-21589-1] c 54 N91-16566
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[NASA-CASE-MSC-21059-3] c 35 N91-21495
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Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
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[NASA-CASE-MFS-28370-1] c 35 N89-28793
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Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
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Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
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Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Device for measuring the ferrite content in an austenitic stainless-steel weld
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[NASA-CASE-LAR-11726-1] c 37 N76-27568
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[NASA-CASE-MFS-25807-2] c 37 N86-21850
Apparatus and method for explosive bonding to edge of flyer plate
[NASA-CASE-LAR-14096-1] c 31 N91-31476
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Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Flanged major modular assembly jig
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Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
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[NASA-CASE-XMF-00640] c 15 N70-39924
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[NASA-CASE-XMF-00722] c 15 N70-40204
Apparatus for welding sheet material --- butt joints
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Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
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[NASA-CASE-LEW-13934-1] c 35 N83-35338
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
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Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
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[NASA-CASE-MFS-29177-1] c 37 N88-14362
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[NASA-CASE-GSC-13344-1] c 26 N91-28363
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Method and device for determining battery state of charge Patent
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Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14489-1] c 37 N91-27562
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Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
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[NASA-CASE-MSC-21589-1] c 54 N91-16566
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[NASA-CASE-MFS-12827] c 14 N71-17656
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[NASA-CASE-XLA-02810] c 14 N71-25901
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
Pressure transducer and system for cryogenic environments
[NASA-CASE-LAR-14579-1] c 35 N91-28546
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Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
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[NASA-CASE-GSC-13230-1] c 37 N91-13734
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[NASA-CASE-XLE-00228] c 17 N70-38490
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Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
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Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
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[NASA-CASE-GSC-13019-1] c 34 N88-29133
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[NASA-CASE-GSC-13199-1] c 27 N90-23541
WIDE ANGLE LENSES
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
WIDEBAND COMMUNICATION
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
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Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
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Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
Cable suspended windmill
[NASA-CASE-LAR-13434-1] c 37 N90-23742
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Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
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Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
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Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
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[NASA-CASE-XAC-00319] c 25 N70-41628
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
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[NASA-CASE-MFS-12915] c 11 N71-17600
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[NASA-CASE-XAC-01677] c 09 N71-20816
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[NASA-CASE-XNP-03578] c 11 N71-23030
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[NASA-CASE-XNP-00250] c 11 N71-28779
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[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
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[NASA-CASE-LAR-12007-3] c 35 N84-16523
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[NASA-CASE-XMF-00411] c 11 N70-36913
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[NASA-CASE-LAR-11138] c 12 N71-20436
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[NASA-CASE-XLA-01326] c 11 N71-21481
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[NASA-CASE-XNP-03578] c 11 N71-23030
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[NASA-CASE-XLA-09480] c 11 N71-33612
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[NASA-CASE-LAR-10812-1] c 09 N74-17955
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
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Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
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[NASA-CASE-LAR-12950-1] c 09 N84-34448
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[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
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[NASA-CASE-ARC-11886-1-SB] c 35 N91-14591
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Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Improved method and apparatus for Mach number change in wind tunnel
[NASA-CASE-LAR-13548-1] c 09 N91-28175
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Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
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[NASA-CASE-LAR-12441-1] c 09 N82-23254
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[NASA-CASE-LAR-13564-1] c 35 N87-25558
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
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[NASA-CASE-LAR-13508-1] c 35 N88-23962
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[NASA-CASE-NPO-10617-1] c 35 N74-22095
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[NASA-CASE-ARC-10710-1] c 09 N75-12969
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[NASA-CASE-MFS-23099-1] c 09 N76-23273
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[NASA-CASE-LAR-12269-1] c 35 N80-18358
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[NASA-CASE-LAR-14424-1-SB] c 09 N91-32149
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Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
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Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
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[NASA-CASE-LAR-12518-1] c 06 N86-27280
WIND VELOCITY MEASUREMENT
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[NASA-CASE-LAR-12518-1] c 06 N86-27280
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Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
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[NASA-CASE-LEW-10433-1] c 09 N72-22197
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Electrical power generating system --- for windpowered generation
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[NASA-CASE-LAR-12923-1] c 37 N84-12493
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[NASA-CASE-MFS-25302-2] c 33 N84-33660
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[NASA-CASE-LAR-13434-1] c 37 N90-23742
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[NASA-CASE-LAR-10513-1] c 07 N72-25170
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[NASA-CASE-NPO-10890] c 11 N73-12265
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[NASA-CASE-MSC-18417-1] c 74 N85-29750
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[NASA-CASE-MFS-28057-1] c 09 N87-14355
WINDPOWER UTILIZATION
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
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[NASA-CASE-MFS-23515-1] c 44 N80-21828
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
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Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
WING CAMBER
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
WING FLAPS
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
WING PROFILES
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
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Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
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[NASA-CASE-LAR-12541-1] c 05 N84-22551
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Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
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Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
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[NASA-CASE-LAR-13019-1] c 07 N85-35194
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[NASA-CASE-LAR-14116-1] c 05 N91-14345
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Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
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[NASA-CASE-LEW-13773-2] c 33 N86-20671
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
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Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
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[NASA-CASE-MFS-13687-2] c 09 N72-22198
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N90-23586
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N90-26168
Coupling device with improved thermal interface
[NASA-CASE-GSC-13251-1] c 37 N91-28582
Device for removing foreign objects from anatomic organs
[NASA-CASE-GSC-13306-1] c 52 N91-28727
Low cost, formable, high T(sub c) superconducting wire
[NASA-CASE-LEW-14676-1] c 33 N91-31529
WIRE BRIDGE CIRCUITS
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
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Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
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Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918

Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Improved high power/high frequency inductor
[NASA-CASE-NPO-17830-1-CU] c 33 N91-14539

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Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

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Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

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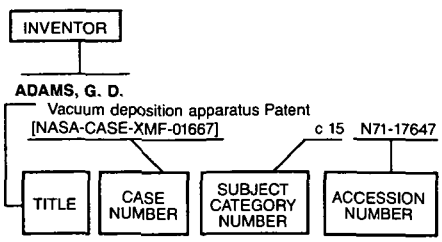
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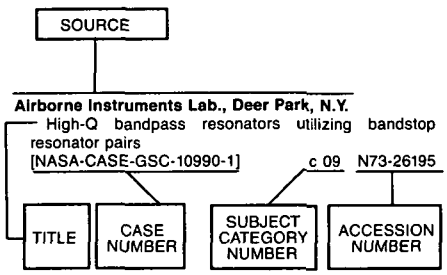
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[NASA-CASE-HQN-10792-1] c 33 N74-11049

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[NASA-CASE-GSC-11074-1] c 14 N73-28489

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[NASA-CASE-MSC-10960-1] c 03 N71-24718
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[NASA-CASE-LAR-10270-1] c 32 N72-25877
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[NASA-CASE-MSC-13335-1] c 06 N72-31140
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[NASA-CASE-MSC-11072] c 54 N74-32546
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[NASA-CASE-XNP-05612] c 09 N69-21468
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[NASA-CASE-XNP-03930] c 14 N69-24331
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[NASA-CASE-LEW-12317-1] c 07 N78-17055
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[NASA-CASE-LEW-12390-1] c 07 N78-17056
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[NASA-CASE-LEW-12452-1] c 07 N78-25089
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[NASA-CASE-LEW-12793-1] c 37 N79-11403
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[NASA-CASE-LEW-12389-3] c 07 N79-14096
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[NASA-CASE-LEW-12658-1] c 71 N79-14871
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
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[NASA-CASE-LEW-13142-1] c 07 N83-36029
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[NASA-CASE-LEW-13524-1] c 07 N84-33410
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[NASA-CASE-LEW-13562-2] c 07 N85-35195
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[NASA-CASE-MFS-21394-1] c 34 N74-27744
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[NASA-CASE-MSC-13601-2] c 54 N75-27759
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High voltage transistor circuit Patent
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[NASA-CASE-NPO-10301] c 07 N72-11148
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[NASA-CASE-NPO-11377] c 15 N73-27406
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[NASA-CASE-GSC-11909] c 32 N74-20863
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[NASA-CASE-GSC-11353-1] c 74 N74-21304
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[NASA-CASE-GSC-12059-1] c 35 N77-27366
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[NASA-CASE-GSC-12146-1] c 33 N78-32340
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[NASA-CASE-GSC-12148-1] c 32 N79-20296
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[NASA-CASE-XNP-07481] c 25 N69-21929
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Temperature telemetric transmitter Patent
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Drive circuit for minimizing power consumption in inductive load Patent
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Johns Hopkins Univ., Laurel, MD.
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[NASA-CASE-GSC-11868-1] c 17 N76-22245

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[NASA-CASE-MSC-12709-1] c 33 N77-24375

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[NASA-CASE-LAR-13734-1-CU] c 09 N90-20096

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[NASA-CASE-XMF-00923] c 28 N70-36802

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[NASA-CASE-HQN-00937] c 07 N71-28979

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Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

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[NASA-CASE-XNP-04183] c 09 N69-24329
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
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[NASA-CASE-XNP-02778] c 08 N71-22710

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[NASA-CASE-XMS-06056-1] c 23 N71-24857

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[NASA-CASE-ERC-10041] c 08 N71-29138
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[NASA-CASE-GSC-11487-1] c 14 N73-30393

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[NASA-CASE-ARC-10849-1] c 17 N76-29347

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[NASA-CASE-MFS-11279] c 16 N71-20400

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[NASA-CASE-MSC-14632-1] c 54 N78-14784

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[NASA-CASE-XLA-03538] c 15 N71-24897

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[NASA-CASE-XGS-01052] c 14 N71-15992
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[NASA-CASE-MSC-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions
[NASA-CASE-MSC-14331-3] c 27 N78-32262
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
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[NASA-CASE-MSC-20261-1] c 54 N84-28484

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[NASA-CASE-MSC-12411-1] c 05 N72-20096

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[NASA-CASE-XNP-01296] c 33 N75-27250

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[NASA-CASE-XNP-02507] c 31 N71-17679

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[NASA-CASE-XLA-02865] c 28 N71-15563
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[NASA-CASE-XMS-07168] c 07 N71-11300
Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
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[NASA-CASE-MSC-13492-1] c 10 N71-28860
Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411

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[NASA-CASE-MSC-14053-1] c 60 N74-12888
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
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[NASA-CASE-MSC-16462-1] c 32 N82-31583

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Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413

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[NASA-CASE-MFS-25791-1] c 09 N84-27749

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Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
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[NASA-CASE-GSC-10188-1] c 23 N71-24725
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[NASA-CASE-XNP-02500] c 18 N71-27397
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[NASA-CASE-MSC-13281] c 31 N72-18859
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
Whole body measurement systems
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Four phase logic systems
[NASA-CASE-MSC-14240-1] c 33 N75-14957
Strain arrestor plate for fused silica tile
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Medical subject monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
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[NASA-CASE-ARC-10932-1] c 74 N76-22993
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
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[NASA-CASE-NPO-14303-1] c 44 N80-18550

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[NASA-CASE-XGS-03556] c 27 N70-35534

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[NASA-CASE-MSC-14435-1] c 37 N76-18455

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[NASA-CASE-NPO-10431] c 15 N71-29132

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Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
Pulse transducer with artifact signal attenuator
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Urine collection apparatus
[NASA-CASE-MSC-18381-1] c 52 N81-28740

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[NASA-CASE-XMF-01174] c 02 N70-41589
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[NASA-CASE-MSC-13512-1] c 15 N72-22485
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[NASA-CASE-MSC-13907-1] c 10 N73-26230
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[NASA-CASE-MFS-21671-1] c 33 N74-22885
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Filter regeneration systems
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
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[NASA-CASE-MFS-25868-1] c 33 N86-20670

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[NASA-CASE-GSC-10216-1] c 23 N71-26722

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[NASA-CASE-XMS-03537] c 15 N69-21471
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Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
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[NASA-CASE-HQN-10541-3] c 23 N72-23695
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[NASA-CASE-HQN-10703] c 21 N73-13643
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[NASA-CASE-MSC-13746-1] c 10 N73-32143
Vapor deposition apparatus
[NASA-CASE-HQN-10462] c 25 N75-29192
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[NASA-CASE-MSC-12531-1] c 35 N75-30504

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[NASA-CASE-XLE-03186-1] c 09 N79-21084

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[NASA-CASE-XMS-01108] c 15 N69-24322
Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
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[NASA-CASE-XMS-00913] c 10 N71-23543
Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
Apparatus for welding sheet material
[NASA-CASE-XMS-01330] c 37 N75-27376
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[NASA-CASE-XMS-01244-1] c 33 N79-33393
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[NASA-CASE-LAR-12406-1] c 05 N81-26114

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[NASA-CASE-MFS-22938-1] c 34 N76-18374

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[NASA-CASE-NPO-10863] c 06 N70-11251
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[NASA-CASE-MFS-23642-2] c 20 N78-27176

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[NASA-CASE-MFS-20317] c 15 N73-13463
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[NASA-CASE-MFS-21115-1] c 54 N74-12779
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[NASA-CASE-MFS-21163-1] c 54 N74-17853
Airlock
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Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Thrust-isolating mounting
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
Phase-locked servo system
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Device for use in loading tension members
[NASA-CASE-MFS-21488-1] c 14 N75-24794

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[NASA-CASE-LAR-13250-1] c 37 N86-27630

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[NASA-CASE-XNP-04264] c 03 N69-21337

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[NASA-CASE-NPO-10311] c 31 N71-15643
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[NASA-CASE-NPO-10862] c 06 N72-22107
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[NASA-CASE-NPO-10863-2] c 06 N72-25152
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[NASA-CASE-LAR-11042-1] c 33 N75-27252
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[NASA-CASE-NPO-12122-1] c 24 N76-14203
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[NASA-CASE-NPO-12061-1] c 27 N76-16228

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[NASA-CASE-GSC-11304-1] c 06 N72-21105
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[NASA-CASE-MFS-23642-1] c 20 N80-10278

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[NASA-CASE-NPO-12119-1] c 52 N75-15270

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[NASA-CASE-MSC-14623-1] c 52 N77-28717

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[NASA-CASE-XNP-05219] c 16 N71-15550
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[NASA-CASE-NPO-13568-1] c 32 N76-21365
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[NASA-CASE-XMF-10753] c 06 N71-11237
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[NASA-CASE-LAR-10686] c 14 N71-28935

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[NASA-CASE-XLE-02545-1] c 76 N79-21910

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[NASA-CASE-MFS-22356-1] c 23 N75-30256
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Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
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[NASA-CASE-NPO-11948-1] c 33 N74-32712
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[NASA-CASE-MFS-21433] c 09 N73-20232
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[NASA-CASE-LAR-10682-1] c 02 N73-26004
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[NASA-CASE-GSC-11296-1] c 23 N73-30666
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[NASA-CASE-GSC-11222-1] c 16 N73-32391
High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
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[NASA-CASE-MFS-22040-1] c 35 N74-26946
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[NASA-CASE-LAR-11139-1] c 35 N74-32878
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34636
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087
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[NASA-CASE-ARC-10448-2] c 74 N75-12732
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
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[NASA-CASE-MFS-22758-1] c 70 N75-26789
Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
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[NASA-CASE-MFS-22342-1] c 33 N75-30428
Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
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[NASA-CASE-ARC-10816-1] c 35 N76-24525
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[NASA-CASE-ARC-10448-3] c 35 N77-14408
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[NASA-CASE-ARC-10900-1] c 35 N77-24454
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187
Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
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[NASA-CASE-ARC-11257-1] c 04 N81-21047
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
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[NASA-CASE-ARC-11244-1] c 23 N82-16174
Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
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[NASA-CASE-GSC-12223-1] c 60 N83-25378
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
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[NASA-CASE-ARC-11522-2] c 27 N85-34280
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[NASA-CASE-ARC-11424-1] c 27 N85-34281
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
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[NASA-CASE-ARC-11405-2] c 27 N86-19455

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[NASA-CASE-XGS-02401] c 14 N69-27485
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[NASA-CASE-ERC-10179] c 07 N72-20141
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[NASA-CASE-ERC-10307] c 08 N72-21198
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[NASA-CASE-ERC-10119] c 26 N72-21701
Fabrication of single crystal film semiconductor devices
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Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Apparatus for producing three-dimensional recordings of flourescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
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[NASA-CASE-XGS-01983] c 10 N70-41964
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[NASA-CASE-XGS-01473] c 09 N71-10673

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[NASA-CASE-XGS-01451] c 09 N71-10677

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[NASA-CASE-XGS-01159] c 21 N71-10678

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[NASA-CASE-XGS-00886] c 03 N71-11053

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[NASA-CASE-XGS-01475] c 03 N71-11058

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[NASA-CASE-XGS-02889] c 07 N71-11282

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[NASA-CASE-XGS-01590] c 07 N71-12392

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[NASA-CASE-XGS-04767] c 08 N71-12494

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

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[NASA-CASE-GSC-10072] c 18 N71-14014

Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044

Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159

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[NASA-CASE-GSC-10062] c 14 N71-15605

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[NASA-CASE-XGS-03431] c 21 N71-15642

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

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[NASA-CASE-XGS-01587] c 14 N71-15962

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[NASA-CASE-XGS-00373] c 23 N71-15978

Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044

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[NASA-CASE-GSC-10007] c 18 N71-16046

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[NASA-CASE-XGS-01022] c 07 N71-16088

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

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[NASA-CASE-XGS-07514] c 23 N71-16099

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[NASA-CASE-XGS-05715] c 23 N71-16100

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[NASA-CASE-XGS-09190] c 31 N71-16102

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[NASA-CASE-XGS-06628] c 24 N71-16213

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[NASA-CASE-XGS-05291] c 23 N71-16341

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[NASA-CASE-XGS-05680] c 14 N71-17585

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[NASA-CASE-XGS-03532] c 14 N71-17627

Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788

Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579

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[NASA-CASE-XGS-03303] c 08 N71-18595

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[NASA-CASE-XGS-04766] c 08 N71-18602

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[NASA-CASE-XGS-04765] c 08 N71-18693

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[NASA-CASE-GSC-10366-1] c 10 N71-18772

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431

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[NASA-CASE-XGS-02440] c 08 N71-19432

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

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[NASA-CASE-XGS-05432] c 03 N71-19438

Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

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[NASA-CASE-XGS-05434] c 03 N71-20491

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[NASA-CASE-XGS-04987] c 08 N71-20571

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

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[NASA-CASE-XGS-01222] c 10 N71-20841

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

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[NASA-CASE-XGS-02629] c 14 N71-21082

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[NASA-CASE-XGS-02422] c 15 N71-21529

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[NASA-CASE-XGS-04227] c 15 N71-21744

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[NASA-CASE-XGS-02884] c 15 N71-22705

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[NASA-CASE-XGS-02319] c 14 N71-22965

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[NASA-CASE-XGS-03304] c 09 N71-22988

Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

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[NASA-CASE-XGS-02631] c 03 N71-23006

Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009

Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Sealed electrochemical cell provided with a flexible casing Patent
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Digitally controlled frequency synthesizer Patent
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Radio frequency coaxial high pass filter Patent
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Apparatus for phase stability determination Patent
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Balance torquemeter Patent
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[NASA-CASE-XGS-04799] c 18 N71-24183

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Electromagnetic polarization systems and methods Patent
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[NASA-CASE-XGS-08718] c 15 N71-24600

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[NASA-CASE-GSC-10118-1] c 07 N71-24621

Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

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[NASA-CASE-GSC-10299-1] c 09 N71-24804

Annular slit colloid thrustor Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

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[NASA-CASE-GSC-10022-1] c 10 N71-25882

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999

Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085

Adaptive system and method for signal generation Patent
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Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
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Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626

Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674

Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016

Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Segmented superconducting magnet for a broadband traveling wave maser Patent
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Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110

Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172

Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224

Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568

Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080

Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283

Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477

Heated porous plug microthrustor
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Optimum performance spacecraft solar cell system
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Monostable multivibrator
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Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

Cosmic dust sensor
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Solenoid valve including guide for armature and valve member
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Fast response low power drain logic circuits
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[NASA-CASE-GSC-11358-1] c 06 N73-26100
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[NASA-CASE-GSC-11149-1] c 15 N73-30457
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[NASA-CASE-GSC-10890-1] c 21 N73-30640
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[NASA-CASE-XLA-02651] c 28 N70-41967
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[NASA-CASE-XLA-01290] c 02 N70-42016
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Vibrating structure displacement measuring instrument Patent
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[NASA-CASE-XLA-00377] c 33 N71-17610
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[NASA-CASE-LAR-10274-1] c 14 N71-17626
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Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
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[NASA-CASE-XLA-02551] c 21 N71-21708
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Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
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[NASA-CASE-XLA-03114] c 09 N71-22888
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Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
Lateral displacement system for separated rocket stages Patent
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[NASA-CASE-XLA-01530] c 14 N71-23092
Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
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Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
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[NASA-CASE-XLA-03375] c 16 N71-24074
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[NASA-CASE-XLA-02059] c 33 N71-24276
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[NASA-CASE-XLA-04901] c 31 N71-24315
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
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[NASA-CASE-XLA-07473] c 15 N71-24895
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[NASA-CASE-XLA-08530] c 32 N71-25360
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[NASA-CASE-XLA-04555-1] c 14 N71-25892
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[NASA-CASE-XLA-02810] c 14 N71-25901
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
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[NASA-CASE-LAR-10305] c 14 N71-26137
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
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[NASA-CASE-XLA-05541] c 12 N71-26387
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
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[NASA-CASE-XLA-04126] c 28 N71-26779
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[NASA-CASE-LAR-10083-1] c 15 N71-27006
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
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[NASA-CASE-XLA-08967] c 02 N71-27088
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
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[NASA-CASE-XLA-08911] c 15 N71-27214
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[NASA-CASE-LAR-10204] c 14 N71-27215
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[NASA-CASE-XLA-03893] c 10 N71-27271
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[NASA-CASE-XLA-08799] c 10 N71-27272
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[NASA-CASE-XLA-09346] c 15 N71-28740
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[NASA-CASE-XLA-01745] c 33 N71-28903
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[NASA-CASE-XLA-08913] c 14 N71-28933
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
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[NASA-CASE-XLA-06713] c 14 N71-28991
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[NASA-CASE-XLA-08916] c 15 N71-29018
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[NASA-CASE-XLA-10402] c 14 N71-29041
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[NASA-CASE-XLA-07788] c 09 N71-29139
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[NASA-CASE-XLA-00327] c 25 N71-29184
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[NASA-CASE-XLA-03661] c 15 N71-33518
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[NASA-CASE-LAR-10913] c 14 N72-16282
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[NASA-CASE-LAR-10545-1] c 09 N72-21244
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Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
Nondestructive spot test method for magnesium and magnesium alloys
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Mossbauer spectrometer radiation detector
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[NASA-CASE-LAR-10595-1] c 35 N74-16135
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[NASA-CASE-LAR-10318-1] c 31 N74-18089
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[NASA-CASE-LAR-10626-1] c 19 N74-21015
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[NASA-CASE-LAR-10688-1] c 37 N74-21056
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[NASA-CASE-LAR-10941-1] c 37 N74-21057
Method of fabricating an object with a thin wall having a precisely shaped slit
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[NASA-CASE-LAR-10295-1] c 35 N74-21062
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[NASA-CASE-LAR-10168-1] c 33 N74-22865
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[NASA-CASE-LAR-10900-1] c 37 N74-23064
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[NASA-CASE-XLE-04250] c 09 N71-20446
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High temperature furnace for melting materials in space
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Siloxane containing epoxide compounds
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Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
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Altitude simulation chamber for rocket engine testing
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Remote control manipulator for zero gravity environment
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Polymerizable disilanols having in-chain perfluoroalkyl groups
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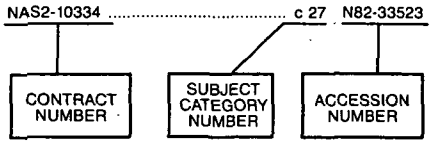
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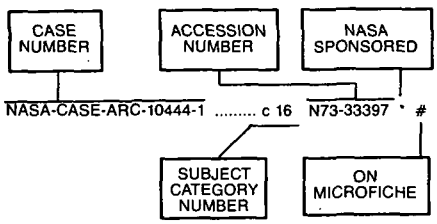


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NAS 1.71:LAR-13563-1 ..... c 34 N91-23410 * #
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NAS 1.71:LAR-13719-1 ..... c 37 N89-12867 * #
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NAS 1.71:LAR-13772-1 ..... c 36 N89-28816 * #
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NAS 1.71:LAR-13887-1 ..... c 36 N91-23472 * #
NAS 1.71:LAR-13889-1 ..... c 39 N88-30160 * #
NAS 1.71:LAR-13925-1 ..... c 27 N89-25334 * #
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NAS 1.71:LAR-14062-1 ..... c 37 N90-27114 * #
NAS 1.71:LAR-14078-1-CU ..... c 34 N90-27071 * #
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NAS 1.71:LAR-14339-1 ..... c 27 N90-26955 * #
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NAS 1.71:LEW-13770-5 ..... c 27 N85-21352 *
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NAS 1.71:NPO-18194-1-CU ..... c 74 N91-32924 * #
NAS 1.71:NPO-18243-1-CU ..... c 36 N91-32489 * #
NAS 1.71:NPO-18278-1-CU ..... c 74 N91-32925 * #
NAS 1.71:NPO-18317-1-CU ..... c 74 N91-32926 * #
NAS 1.71:SSC-00006-1 ..... c 35 N91-13691 * #
NAS 1.71:SSC-00008-1 ..... c 37 N91-13733 * #
NAS 1.71:SSC-00010-1 ..... c 82 N91-23976 * #
NAS 1.71:SSC-00013-1 ..... c 38 N91-32515 * #
NAS 1.71:WLP-10055-2 ..... c 35 N85-21598 *
NAS 1.71:14846-2 ..... c 20 N91-26200 * #

NASA-CASE-ARC-10003-1 ..... c 09 N71-25866 *
NASA-CASE-ARC-10009-1 ..... c 15 N71-17822 *
NASA-CASE-ARC-10017-1 ..... c 14 N72-29464 *
NASA-CASE-ARC-10020 ..... c 10 N72-17172 *
NASA-CASE-ARC-10030 ..... c 09 N71-12521 *
NASA-CASE-ARC-10042-2 ..... c 10 N72-11256 *
NASA-CASE-ARC-10043-1 ..... c 05 N71-11193 *
NASA-CASE-ARC-10050 ..... c 03 N71-33409 *
NASA-CASE-ARC-10097-2 ..... c 07 N73-25160 *
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NASA-CASE-ARC-10099-1 ..... c 18 N71-15469 *
NASA-CASE-ARC-10100-1 ..... c 05 N71-24738 *
NASA-CASE-ARC-10101-1 ..... c 09 N71-33109 *
NASA-CASE-ARC-10105 ..... c 09 N72-17153 *
NASA-CASE-ARC-10106-1 ..... c 28 N72-22769 *
NASA-CASE-ARC-10131-1 ..... c 15 N71-27754 *
NASA-CASE-ARC-10132-1 ..... c 09 N71-24597 *
NASA-CASE-ARC-10134 ..... c 30 N72-17873 *
NASA-CASE-ARC-10136-1 ..... c 09 N72-22202 *
NASA-CASE-ARC-10137-1 ..... c 09 N71-28468 *
NASA-CASE-ARC-10138-1 ..... c 14 N72-24477 *
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NASA-CASE-ARC-10160-1 ..... c 23 N72-27728 *
NASA-CASE-ARC-10176-1 ..... c 15 N72-21464 *
NASA-CASE-ARC-10178-1 ..... c 09 N72-17152 *
NASA-CASE-ARC-10179-1 ..... c 21 N72-22619 *
NASA-CASE-ARC-10180-1 ..... c 27 N74-12814 *
NASA-CASE-ARC-10192 ..... c 09 N72-21245 *
NASA-CASE-ARC-10194-1 ..... c 23 N73-20741 *
NASA-CASE-ARC-10196-1 ..... c 18 N73-13562 *
NASA-CASE-ARC-10197-1 ..... c 33 N74-17929 *
NASA-CASE-ARC-10198 ..... c 34 N78-17336 *
NASA-CASE-ARC-10199 ..... c 34 N78-17337 *
NASA-CASE-ARC-10263-1 ..... c 14 N72-22438 *
NASA-CASE-ARC-10264-1 ..... c 09 N73-20231 *
NASA-CASE-ARC-10265-1 ..... c 10 N72-28240 *
NASA-CASE-ARC-10266-1 ..... c 33 N75-29318 *
NASA-CASE-ARC-10269-1 ..... c 10 N72-16172 *
NASA-CASE-ARC-10275-1 ..... c 05 N72-22092 *
NASA-CASE-ARC-10278-1 ..... c 14 N73-25463 *
NASA-CASE-ARC-10302-1 ..... c 51 N74-15778 *
NASA-CASE-ARC-10304-1 ..... c 18 N73-26572 *
NASA-CASE-ARC-10304-2 ..... c 27 N74-27037 *
NASA-CASE-ARC-10308-1 ..... c 06 N72-31141 *
NASA-CASE-ARC-10322-1 ..... c 35 N76-18403 *
NASA-CASE-ARC-10325 ..... c 06 N72-25147 *
NASA-CASE-ARC-10329-1 ..... c 05 N73-26072 *
NASA-CASE-ARC-10330-1 ..... c 09 N73-32112 *
NASA-CASE-ARC-10344-2 ..... c 35 N75-26334 *
NASA-CASE-ARC-10345-1 ..... c 15 N73-12488 *
NASA-CASE-ARC-10348-1 ..... c 33 N75-19518 *
NASA-CASE-ARC-10362-1 ..... c 14 N73-32326 *
NASA-CASE-ARC-10364-2 ..... c 33 N75-25041 *
NASA-CASE-ARC-10364-3 ..... c 33 N75-19520 *
NASA-CASE-ARC-10370-1 ..... c 36 N75-31426 *
NASA-CASE-ARC-10441-1 ..... c 35 N74-15126 *
NASA-CASE-ARC-10442-1 ..... c 35 N74-15093 *
NASA-CASE-ARC-10443-1 ..... c 14 N73-20477 *
NASA-CASE-ARC-10444-1 ..... c 16 N73-33397 *
NASA-CASE-ARC-10445-1 ..... c 31 N76-31365 *
NASA-CASE-ARC-10447-1 ..... c 52 N74-22771 *
NASA-CASE-ARC-10448-2 ..... c 74 N75-12732 *
NASA-CASE-ARC-10448-3 ..... c 35 N77-14408 *
NASA-CASE-ARC-10456-1 ..... c 05 N75-12930 *
NASA-CASE-ARC-10461-1 ..... c 44 N74-33379 *
NASA-CASE-ARC-10462-1 ..... c 37 N74-27901 *
NASA-CASE-ARC-10463-1 ..... c 09 N73-32111 *
NASA-CASE-ARC-10464-1 ..... c 27 N74-12812 *
NASA-CASE-ARC-10466-1 ..... c 60 N75-13539 *
NASA-CASE-ARC-10467-1 ..... c 09 N73-14214 *
NASA-CASE-ARC-10468-1 ..... c 14 N73-33361 *
NASA-CASE-ARC-10469-1 ..... c 25 N75-12086 *
NASA-CASE-ARC-10470-1 ..... c 02 N73-26005 *
NASA-CASE-ARC-10470-3 ..... c 05 N76-29217 *
NASA-CASE-ARC-10516-1 ..... c 70 N74-21300 *
NASA-CASE-ARC-10519-2 ..... c 05 N75-25915 *
NASA-CASE-ARC-10583-1 ..... c 52 N76-29894 *
NASA-CASE-ARC-10592-1 ..... c 27 N74-21156 *
NASA-CASE-ARC-10592-2 ..... c 27 N76-32315 *
NASA-CASE-ARC-10593-1 ..... c 33 N74-27682 *
NASA-CASE-ARC-10596-1 ..... c 33 N74-21851 *
NASA-CASE-ARC-10597-1 ..... c 52 N74-20726 *
NASA-CASE-ARC-10598-1 ..... c 75 N74-30156 *
NASA-CASE-ARC-10599-1 ..... c 05 N73-26071 *
NASA-CASE-ARC-10631-1 ..... c 74 N76-20958 *
NASA-CASE-ARC-10633-1 ..... c 25 N74-26947 *
NASA-CASE-ARC-10637-1 ..... c 35 N75-16783 *
NASA-CASE-ARC-10639-1 ..... c 35 N78-13400 *
NASA-CASE-ARC-10642-1 ..... c 36 N76-14447 *
NASA-CASE-ARC-10643-1 ..... c 25 N75-12087 *
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NASA-CASE-ARC-10712-1 ..... c 07 N74-33218 *
NASA-CASE-ARC-10714-1 ..... c 27 N76-15310 *
NASA-CASE-ARC-10716-1 ..... c 35 N77-20399 *
NASA-CASE-ARC-10721-1 ..... c 27 N76-22376 *
NASA-CASE-ARC-10722-1 ..... c 51 N75-25503 *
NASA-CASE-ARC-10753-1 ..... c 54 N75-27760 *
NASA-CASE-ARC-10754-1 ..... c 07 N75-24736 *
NASA-CASE-ARC-10755-2 ..... c 34 N76-27517 *
NASA-CASE-ARC-10756-1 ..... c 54 N77-32721 *
NASA-CASE-ARC-10760-1 ..... c 25 N76-22323 *
NASA-CASE-ARC-10761-1 ..... c 07 N77-18154 *
NASA-CASE-ARC-10802-1 ..... c 35 N75-30502 *
NASA-CASE-ARC-10806-1 ..... c 35 N75-29381 *
NASA-CASE-ARC-10807-1 ..... c 05 N77-17029 *
NASA-CASE-ARC-10808-1 ..... c 09 N76-24280 *
NASA-CASE-ARC-10810-1 ..... c 33 N76-19339 *
NASA-CASE-ARC-10812-1 ..... c 07 N83-33884 *
NASA-CASE-ARC-10813-1 ..... c 27 N76-16230 *
NASA-CASE-ARC-10814-2 ..... c 07 N80-26298 *
NASA-CASE-ARC-10816-1 ..... c 35 N76-24525 *
NASA-CASE-ARC-10820-1 ..... c 35 N78-19466 *
NASA-CASE-ARC-10849-1 ..... c 17 N76-29347 *
NASA-CASE-ARC-10855-1 ..... c 52 N77-10780 *
NASA-CASE-ARC-10892-2 ..... c 27 N79-14214 *
NASA-CASE-ARC-10896-1 ..... c 35 N78-19465 *
NASA-CASE-ARC-10897-1 ..... c 33 N77-31404 *
NASA-CASE-ARC-10898-1 ..... c 35 N77-18417 *
NASA-CASE-ARC-10899-1 ..... c 60 N77-19760 *
NASA-CASE-ARC-10900-1 ..... c 35 N77-24454 *
NASA-CASE-ARC-10903-1 ..... c 09 N78-18083 *
NASA-CASE-ARC-10905-1 ..... c 37 N77-13418 *
NASA-CASE-ARC-10907-1 ..... c 37 N75-32465 * #
NASA-CASE-ARC-10911-1 ..... c 35 N77-20400 *
NASA-CASE-ARC-10912-1 ..... c 34 N77-19353 *
NASA-CASE-ARC-10913-1 ..... c 24 N78-15180 *
NASA-CASE-ARC-10915-2 ..... c 27 N79-18052 *
NASA-CASE-ARC-10916-1 ..... c 52 N78-10686 *
NASA-CASE-ARC-10917-1 ..... c 51 N78-27733 *
NASA-CASE-ARC-10932-1 ..... c 74 N76-22993 *
NASA-CASE-ARC-10970-1 ..... c 36 N77-25501 *
NASA-CASE-ARC-10974-1 ..... c 34 N77-27345 *
NASA-CASE-ARC-10975-1 ..... c 33 N79-15245 *
NASA-CASE-ARC-10976-1 ..... c 74 N77-22950 *
NASA-CASE-ARC-10977-1 ..... c 07 N80-32392 *
NASA-CASE-ARC-10979-1 ..... c 09 N77-19076 *
NASA-CASE-ARC-10980-1 ..... c 27 N80-23452 *
NASA-CASE-ARC-10981-1 ..... c 37 N78-27425 *
NASA-CASE-ARC-10984-1 ..... c 32 N77-24328 *
NASA-CASE-ARC-10985-1 ..... c 52 N79-10724 *
NASA-CASE-ARC-10990-1 ..... c 04 N82-16059 *
NASA-CASE-ARC-10991-1 ..... c 25 N78-14104 *
NASA-CASE-ARC-10992-1 ..... c 26 N78-32229 *
NASA-CASE-ARC-10994-1 ..... c 52 N76-33835 * #
NASA-CASE-ARC-10994-2 ..... c 52 N79-26771 *
NASA-CASE-ARC-11007-1 ..... c 52 N77-14736 *
NASA-CASE-ARC-11008-1 ..... c 27 N78-31232 *
NASA-CASE-ARC-11031-1 ..... c 52 N81-29763 *
NASA-CASE-ARC-11035-1 ..... c 52 N79-18580 *
NASA-CASE-ARC-11036-1 ..... c 35 N78-32395 *
NASA-CASE-ARC-11039-1 ..... c 74 N78-32854 *
NASA-CASE-ARC-11040-1 ..... c 24 N79-16915 *
NASA-CASE-ARC-11040-2 ..... c 24 N78-27184 * #
NASA-CASE-ARC-11042-1 ..... c 24 N78-14096 *
NASA-CASE-ARC-11043-1 ..... c 24 N78-27180 *
NASA-CASE-ARC-11045-1 ..... c 05 N79-17847 *
NASA-CASE-ARC-11046-1 ..... c 35 N78-14364 *
NASA-CASE-ARC-11051-1 ..... c 27 N78-32260 *
NASA-CASE-ARC-11052-1 ..... c 37 N79-28551 *
NASA-CASE-ARC-11053-1 ..... c 25 N79-10162 *
NASA-CASE-ARC-11057-1 ..... c 27 N78-31233 *
NASA-CASE-ARC-11058-1 ..... c 54 N78-31735 *
NASA-CASE-ARC-11058-2 ..... c 54 N79-24651 *
NASA-CASE-ARC-11059-1 ..... c 54 N78-32721 *
NASA-CASE-ARC-11060-1 ..... c 27 N79-22300 *
NASA-CASE-ARC-11097-1 ..... c 25 N82-24312 *
NASA-CASE-ARC-11100-1 ..... c 54 N78-31736 *
NASA-CASE-ARC-11101-1 ..... c 54 N78-17675 *
NASA-CASE-ARC-11104-1 ..... c 15 N79-26100 *
NASA-CASE-ARC-11106-1 ..... c 05 N80-14107 *
NASA-CASE-ARC-11107-1 ..... c 25 N80-16116 *
NASA-CASE-ARC-11110-1 ..... c 37 N82-24492 *
NASA-CASE-ARC-11114-1 ..... c 51 N81-14605 *
NASA-CASE-ARC-11116-1 ..... c 33 N82-24420 *
NASA-CASE-ARC-11117-1 ..... c 52 N81-14612 *
NASA-CASE-ARC-11118-1 ..... c 52 N81-29764 *
NASA-CASE-ARC-11118-2 ..... c 52 N81-14613 *
NASA-CASE-ARC-11120-1 ..... c 52 N80-18691 *
NASA-CASE-ARC-11121-1 ..... c 25 N79-14169 *
NASA-CASE-ARC-11154-1 ..... c 25 N80-23383 *
NASA-CASE-ARC-11157-1 ..... c 37 N80-18393 *
NASA-CASE-ARC-11158-1 ..... c 09 N82-24212 *
NASA-CASE-ARC-11164-1 ..... c 44 N83-34448 *
NASA-CASE-ARC-11167-1 ..... c 52 N81-25662 *
NASA-CASE-ARC-11169-1 ..... c 24 N79-24062 *
NASA-CASE-ARC-11170-1 ..... c 27 N79-11215 * #
NASA-CASE-ARC-11174-1 ..... c 24 N81-13999 *
NASA-CASE-ARC-11176-1 ..... c 27 N82-18389 *
NASA-CASE-ARC-11176-2 ..... c 27 N81-27271 *
NASA-CASE-ARC-11241-1 ..... c 25 N81-14016 *
NASA-CASE-ARC-11243-2 ..... c 23 N85-33187 *
NASA-CASE-ARC-11244-1 ..... c 23 N82-16174 *
NASA-CASE-ARC-11245-1 ..... c 28 N82-18401 *
NASA-CASE-ARC-11246-1 ..... c 31 N83-34073 *
NASA-CASE-ARC-11248-1 ..... c 27 N81-17259 *
NASA-CASE-ARC-11251-1 ..... c 37 N81-17433 *
NASA-CASE-ARC-11252-1 ..... c 25 N83-36118 *
NASA-CASE-ARC-11253-1 ..... c 27 N81-17262 *
NASA-CASE-ARC-11253-2 ..... c 27 N82-24338 *
NASA-CASE-ARC-11253-3 ..... c 27 N81-24256 *
NASA-CASE-ARC-11256-1 ..... c 15 N82-24272 *
NASA-CASE-ARC-11257-1 ..... c 04 N81-21047 *
NASA-CASE-ARC-11258-1 ..... c 52 N80-33081 * #
NASA-CASE-ARC-11261-1 ..... c 24 N83-25789 *
NASA-CASE-ARC-11264-2 ..... c 52 N83-29991 * #
NASA-CASE-ARC-11267-2 ..... c 23 N82-28353 *
NASA-CASE-ARC-11310-1 ..... c 27 N82-24339 *
NASA-CASE-ARC-11311-1 ..... c 74 N83-13978 *
NASA-CASE-ARC-11312-1 ..... c 36 N83-34304 *
NASA-CASE-ARC-11314-1 ..... c 54 N82-26987 *
NASA-CASE-ARC-11317-1 ..... c 35 N83-34272 *
NASA-CASE-ARC-11321-1 ..... c 27 N81-27272 *
NASA-CASE-ARC-11322-1 ..... c 51 N83-28849 *

NASA-CASE-ARC-11325-1 ..... c 37 N82-22496 * #
NASA-CASE-ARC-11326-1 ..... c 25 N83-33977 *
NASA-CASE-ARC-11349-1 ..... c 37 N86-20797 * #
NASA-CASE-ARC-11354-1 ..... c 74 N83-21949 *
NASA-CASE-ARC-11359-1 ..... c 51 N84-28361 *
NASA-CASE-ARC-11361-1 ..... c 35 N84-22934 *
NASA-CASE-ARC-11363-1 ..... c 31 N87-16918 *
NASA-CASE-ARC-11368-1 ..... c 27 N83-31854 *
NASA-CASE-ARC-11368-2 ..... c 27 N85-21347 *
NASA-CASE-ARC-11368-3 ..... c 27 N84-22745 *
NASA-CASE-ARC-11370-1 ..... c 27 N84-22750 *
NASA-CASE-ARC-11372-1 ..... c 08 N86-27288 *
NASA-CASE-ARC-11400-1 ..... c 27 N84-14322 *
NASA-CASE-ARC-11402-1 ..... c 27 N84-22744 *
NASA-CASE-ARC-11402-3 ..... c 23 N86-21582 *
NASA-CASE-ARC-11405-1 ..... c 27 N84-27884 *
NASA-CASE-ARC-11405-2 ..... c 27 N86-19455 *
NASA-CASE-ARC-11413-1 ..... c 27 N85-21348 *
NASA-CASE-ARC-11418-1 ..... c 24 N84-11213 *
NASA-CASE-ARC-11421-2 ..... c 27 N86-31726 * #
NASA-CASE-ARC-11421-3 ..... c 24 N86-25416 *
NASA-CASE-ARC-11422-1 ..... c 35 N86-20751 *
NASA-CASE-ARC-11423-1 ..... c 03 N84-33394 *
NASA-CASE-ARC-11424-1 ..... c 27 N85-34281 *
NASA-CASE-ARC-11425-2 ..... c 23 N87-28605 *
NASA-CASE-ARC-11425-3 ..... c 23 N90-23475 *
NASA-CASE-ARC-11425-4 ..... c 23 N90-20133 *
NASA-CASE-ARC-11426-1 ..... c 09 N84-12193 * #
NASA-CASE-ARC-11426-2 ..... c 52 N89-16256 *
NASA-CASE-ARC-11427-1 ..... c 24 N86-19380 *
NASA-CASE-ARC-11427-2 ..... c 27 N86-27451 *
NASA-CASE-ARC-11428-1 ..... c 23 N86-19376 *
NASA-CASE-ARC-11428-2 ..... c 27 N87-16909 *
NASA-CASE-ARC-11428-3 ..... c 23 N88-24692 *
NASA-CASE-ARC-11429-1-CU .... c 27 N86-20560 *
NASA-CASE-ARC-11429-2-CU .... c 27 N87-22845 *
NASA-CASE-ARC-11429-3CU ..... c 27 N87-16908 *
NASA-CASE-ARC-11429-4CU ..... c 27 N87-15304 *
NASA-CASE-ARC-11444-1 ..... c 05 N85-29947 *
NASA-CASE-ARC-11502-1 ..... c 74 N86-20125 *
NASA-CASE-ARC-11503-1 ..... c 35 N85-34374 *
NASA-CASE-ARC-11504-1 ..... c 09 N86-32447 *
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NASA-CASE-ARC-11506-2 ..... c 23 N86-32525 *
NASA-CASE-ARC-11510-1 ..... c 35 N86-32697 *
NASA-CASE-ARC-11511-2 ..... c 27 N87-21112 *
NASA-CASE-ARC-11512-2 ..... c 27 N86-32568 * #
NASA-CASE-ARC-11522-2 ..... c 27 N85-34280 *
NASA-CASE-ARC-11525-1 ..... c 37 N86-27629 *
NASA-CASE-ARC-11533-1 ..... c 27 N87-23751 *
NASA-CASE-ARC-11533-2 ..... c 27 N89-16042 *
NASA-CASE-ARC-11533-3 ..... c 27 N87-24564 *
NASA-CASE-ARC-11534-1 ..... c 54 N86-29507 * #
NASA-CASE-ARC-11536-1 ..... c 33 N89-14384 *
NASA-CASE-ARC-11538-1SB ..... c 24 N86-21590 *
NASA-CASE-ARC-11543-1 ..... c 54 N86-28620 *
NASA-CASE-ARC-11547-1 ..... c 36 N87-17026 *
NASA-CASE-ARC-11548-1 ..... c 27 N87-25469 *
NASA-CASE-ARC-11610-1 ..... c 54 N86-28619 *
NASA-CASE-ARC-11611-1 ..... c 74 N87-28416 *
NASA-CASE-ARC-11613-1 ..... c 33 N87-28833 *
NASA-CASE-ARC-11615-1SB ..... c 24 N86-28131 *
NASA-CASE-ARC-11616-1 ..... c 54 N86-28618 *
NASA-CASE-ARC-11620-1 ..... c 37 N87-25573 *
NASA-CASE-ARC-11622-1 ..... c 44 N88-14492 *
NASA-CASE-ARC-11631-1 ..... c 34 N87-21255 *
NASA-CASE-ARC-11633-1 ..... c 08 N87-23631 *
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NASA-CASE-ARC-11636-1 ..... c 05 N88-28914 *
NASA-CASE-ARC-11641-1 ..... c 24 N88-18628 *
NASA-CASE-ARC-11643-1-SB ..... c 23 N87-23698 *
NASA-CASE-ARC-11646-1 ..... c 14 N87-25344 *
NASA-CASE-ARC-11649-1-SB ..... c 27 N88-29040 *
NASA-CASE-ARC-11649-2-SB ..... c 27 N90-21177 *
NASA-CASE-ARC-11652-1 ..... c 27 N87-23737 * #
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NASA-CASE-ARC-11876-1 ..... c 36 N90-25340 *
NASA-CASE-ARC-11877-1-SB ..... c 09 N91-14357 *
NASA-CASE-ARC-11886-1-SB ..... c 35 N91-14591 *
NASA-CASE-ARC-11909-1 ..... c 03 N91-31113 *
NASA-CASE-ARC-11916-1-SB ..... c 74 N91-14002 * #
NASA-CASE-ARC-11917-1 ..... c 35 N91-15520 * #
NASA-CASE-ARC-14408-1 ..... c 27 N82-33523 * #

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NASA-CASE-ERC-10011 ..... c 07 N71-29065 *
NASA-CASE-ERC-10013 ..... c 09 N71-26678 *
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NASA-CASE-ERC-10020 ..... c 16 N71-26154 *
NASA-CASE-ERC-10022 ..... c 15 N71-26635 *
NASA-CASE-ERC-10031 ..... c 12 N71-18603 *
NASA-CASE-ERC-10032 ..... c 10 N71-25900 *
NASA-CASE-ERC-10033 ..... c 14 N71-26672 *
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NASA-CASE-ERC-10048 ..... c 09 N72-25251 *
NASA-CASE-ERC-10065 ..... c 09 N71-27364 *
NASA-CASE-ERC-10072 ..... c 09 N70-11148 * #
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NASA-CASE-ERC-10113 ..... c 09 N71-27053 *
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NASA-CASE-ERC-10151 ..... c 16 N71-29131 *
NASA-CASE-ERC-10174 ..... c 14 N72-25409 *
NASA-CASE-ERC-10178 ..... c 16 N71-24832 *
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NASA-CASE-ERC-10187 ..... c 16 N69-31343 * #
NASA-CASE-ERC-10208 ..... c 15 N70-10867 * #
NASA-CASE-ERC-10214 ..... c 09 N72-31235 *
NASA-CASE-ERC-10222 ..... c 09 N72-22199 *
NASA-CASE-ERC-10224-2 ..... c 09 N73-27150 * #
NASA-CASE-ERC-10224 ..... c 09 N72-25261 *
NASA-CASE-ERC-10226-1 ..... c 14 N73-16483 *
NASA-CASE-ERC-10248 ..... c 14 N72-17323 *
NASA-CASE-ERC-10267 ..... c 09 N72-23173 *
NASA-CASE-ERC-10268 ..... c 09 N72-25252 *
NASA-CASE-ERC-10275 ..... c 26 N72-25680 *
NASA-CASE-ERC-10276 ..... c 14 N73-26432 *
NASA-CASE-ERC-10283 ..... c 16 N72-25485 *
NASA-CASE-ERC-10285 ..... c 10 N73-16206 *
NASA-CASE-ERC-10292 ..... c 14 N72-25410 *
NASA-CASE-ERC-10307 ..... c 08 N72-21198 *
NASA-CASE-ERC-10324 ..... c 07 N72-25173 *
NASA-CASE-ERC-10325 ..... c 15 N72-25457 *
NASA-CASE-ERC-10338 ..... c 04 N72-33072 *
NASA-CASE-ERC-10339-1 ..... c 18 N73-30532 *
NASA-CASE-ERC-10350 ..... c 14 N73-20474 *
NASA-CASE-ERC-10363 ..... c 18 N72-25541 *
NASA-CASE-ERC-10364 ..... c 18 N72-25540 *
NASA-CASE-ERC-10365-1 ..... c 31 N73-32749 *
NASA-CASE-ERC-10392 ..... c 21 N73-14692 *
NASA-CASE-ERC-10403-1 ..... c 10 N73-26228 *
NASA-CASE-ERC-10412-1 ..... c 09 N73-12211 *
NASA-CASE-ERC-10419-1 ..... c 03 N75-30132 *
NASA-CASE-ERC-10439 ..... c 02 N73-19004 *
NASA-CASE-ERC-10468 ..... c 09 N72-20206 * #
NASA-CASE-ERC-10552 ..... c 09 N71-12539 *
NASA-CASE-ERC-11020 ..... c 14 N71-26774 *

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NASA-CASE-FRC-10012 ..... c 14 N72-17329 *
NASA-CASE-FRC-10019 ..... c 15 N73-12487 *
NASA-CASE-FRC-10022 ..... c 12 N71-26546 *
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NASA-CASE-FRC-10029 ..... c 09 N71-24618 *
NASA-CASE-FRC-10036 ..... c 09 N72-22200 *
NASA-CASE-FRC-10038 ..... c 15 N72-20444 *
NASA-CASE-FRC-10049-1 ..... c 04 N74-13420 *
NASA-CASE-FRC-10051-1 ..... c 35 N74-13129 *
NASA-CASE-FRC-10053 ..... c 14 N70-35587 * #
NASA-CASE-FRC-10060-1 ..... c 14 N73-27379 *
NASA-CASE-FRC-10063 ..... c 01 N71-12217 * #
NASA-CASE-FRC-10071-1 ..... c 32 N74-20813 *
NASA-CASE-FRC-10072-1 ..... c 33 N74-14939 *
NASA-CASE-FRC-10081-1 ..... c 37 N77-14477 *
NASA-CASE-FRC-10090-1 ..... c 33 N78-18308 *
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NASA-CASE-FRC-10093-1 ..... c 35 N80-20560 *
NASA-CASE-FRC-10111-1 ..... c 37 N79-10419 *
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NASA-CASE-FRC-10116-1 ..... c 33 N79-23345 *
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NASA-CASE-FRC-11007-2 ..... c 05 N82-26277 *
NASA-CASE-FRC-11009-1 ..... c 06 N80-18036 *
NASA-CASE-FRC-11012-1 ..... c 52 N80-23969 *
NASA-CASE-FRC-11013-1 ..... c 43 N81-17499 *
NASA-CASE-FRC-11014-1 ..... c 33 N82-18494 *
NASA-CASE-FRC-11024-1 ..... c 02 N80-28300 *
NASA-CASE-FRC-11025-1 ..... c 33 N82-24417 *
NASA-CASE-FRC-11026-1 ..... c 24 N82-24296 *
NASA-CASE-FRC-11029-1 ..... c 06 N81-17057 *
NASA-CASE-FRC-11041-1 ..... c 33 N82-18493 *
NASA-CASE-FRC-11042-1 ..... c 60 N82-24839 *
NASA-CASE-FRC-11043-1 ..... c 06 N83-33882 *
NASA-CASE-FRC-11044-1 ..... c 37 N81-33483 *
NASA-CASE-FRC-11052-1 ..... c 04 N82-23231 *
NASA-CASE-FRC-11055-1 ..... c 33 N80-29583 * #
NASA-CASE-FRC-11058-1 ..... c 85 N82-33288 *
NASA-CASE-FRC-11062-1 ..... c 71 N82-16800 *
NASA-CASE-FRC-11065-1 ..... c 05 N83-19737 *
NASA-CASE-FRC-11068-1 ..... c 35 N84-12443 *
NASA-CASE-FRC-11072-1 ..... c 05 N83-27975 *

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NASA-CASE-GSC-10018-1 ..... c 44 N82-24644 *
NASA-CASE-GSC-10019-1 ..... c 44 N82-24641 *
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NASA-CASE-GSC-10022-1 ..... c 10 N71-25882 *
NASA-CASE-GSC-10041-1 ..... c 10 N71-19418 *
NASA-CASE-GSC-10062 ..... c 14 N71-15605 *
NASA-CASE-GSC-10064-1 ..... c 10 N72-22235 *
NASA-CASE-GSC-10065-1 ..... c 10 N71-27136 *
NASA-CASE-GSC-10072 ..... c 18 N71-14014 *
NASA-CASE-GSC-10082-1 ..... c 10 N72-20221 *
NASA-CASE-GSC-10083-1 ..... c 30 N71-16090 *
NASA-CASE-GSC-10087-1 ..... c 02 N71-19287 *
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NASA-CASE-GSC-10087-3 ..... c 07 N72-12080 *
NASA-CASE-GSC-10087-4 ..... c 07 N73-20174 *
NASA-CASE-GSC-10097-1 ..... c 08 N71-27210 *
NASA-CASE-GSC-10114-1 ..... c 10 N71-27366 *
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NASA-CASE-GSC-10131-1 ..... c 07 N71-24624 *
NASA-CASE-GSC-10135 ..... c 33 N78-17296 *
NASA-CASE-GSC-10185-1 ..... c 07 N72-12081 *
NASA-CASE-GSC-10186 ..... c 08 N71-33110 *
NASA-CASE-GSC-10188-1 ..... c 23 N71-24725 *
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NASA-CASE-GSC-10218-1 ..... c 15 N72-21465 *
NASA-CASE-GSC-10220-1 ..... c 07 N71-27233 *
NASA-CASE-GSC-10221-1 ..... c 09 N72-23171 *
NASA-CASE-GSC-10225-1 ..... c 06 N73-27086 *
NASA-CASE-GSC-10299-1 ..... c 09 N71-24804 *
NASA-CASE-GSC-10303 ..... c 15 N72-22487 *
NASA-CASE-GSC-10306-1 ..... c 15 N71-24694 *
NASA-CASE-GSC-10344-1 ..... c 03 N72-27053 *
NASA-CASE-GSC-10349-1 ..... c 44 N82-24645 *
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NASA-CASE-GSC-10361-1 ..... c 18 N72-23581 *
NASA-CASE-GSC-10366-1 ..... c 10 N71-18772 *
NASA-CASE-GSC-10373-1 ..... c 07 N71-19773 *
NASA-CASE-GSC-10376-1 ..... c 14 N71-27407 *
NASA-CASE-GSC-10390-1 ..... c 07 N72-11149 *
NASA-CASE-GSC-10413 ..... c 10 N71-26531 *
NASA-CASE-GSC-10441-1 ..... c 14 N71-27325 *
NASA-CASE-GSC-10452 ..... c 07 N71-12396 *
NASA-CASE-GSC-10487-1 ..... c 03 N71-24719 *
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NASA-CASE-GSC-10514-1 ..... c 14 N72-20379 *
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NASA-CASE-GSC-10566-1 ..... c 15 N72-18477 *
NASA-CASE-GSC-10590-1 ..... c 31 N73-14853 *
NASA-CASE-GSC-10607-1 ..... c 15 N72-20442 *
NASA-CASE-GSC-10614-1 ..... c 09 N72-11224 *
NASA-CASE-GSC-10640-1 ..... c 28 N72-18766 *
NASA-CASE-GSC-10656-1 ..... c 09 N72-25249 *
NASA-CASE-GSC-10667-1 ..... c 10 N71-33129 *
NASA-CASE-GSC-10668-1 ..... c 07 N71-28430 *
NASA-CASE-GSC-10669-1 ..... c 03 N72-20031 *
NASA-CASE-GSC-10695-1 ..... c 09 N72-25259 *
NASA-CASE-GSC-10700 ..... c 23 N71-30027 *
NASA-CASE-GSC-10709-1 ..... c 28 N71-25213 *
NASA-CASE-GSC-10710-1 ..... c 28 N71-27094 *
NASA-CASE-GSC-10735-1 ..... c 10 N71-26085 *
NASA-CASE-GSC-10780-1 ..... c 14 N72-16283 *
NASA-CASE-GSC-10786-1 ..... c 10 N72-28241 *
NASA-CASE-GSC-10791-1 ..... c 15 N73-14469 *
NASA-CASE-GSC-10814-1 ..... c 03 N73-20039 *
NASA-CASE-GSC-10835-1 ..... c 09 N72-33205 *
NASA-CASE-GSC-10878-1 ..... c 10 N72-22236 *
NASA-CASE-GSC-10879-1 ..... c 14 N72-25413 *
NASA-CASE-GSC-10880-1 ..... c 08 N72-11172 *

NASA-CASE-GSC-10890-1 ..... c 21 N73-30640 *
NASA-CASE-GSC-10891-1 ..... c 10 N71-26626 *
NASA-CASE-GSC-10903-1 ..... c 14 N73-12444 *
NASA-CASE-GSC-10913 ..... c 15 N72-22491 *
NASA-CASE-GSC-10945-1 ..... c 21 N72-31637 *
NASA-CASE-GSC-10949-1 ..... c 07 N71-28965 * #
NASA-CASE-GSC-10975-1 ..... c 08 N73-13187 *
NASA-CASE-GSC-10984-1 ..... c 37 N75-26371 *
NASA-CASE-GSC-10990-1 ..... c 09 N73-26195 *
NASA-CASE-GSC-11013-1 ..... c 09 N73-19234 *
NASA-CASE-GSC-11018-1 ..... c 31 N73-30829 *
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NASA-CASE-GSC-11063-1 ..... c 37 N77-27400 *
NASA-CASE-GSC-11074-1 ..... c 14 N73-28489 *
NASA-CASE-GSC-11077-1 ..... c 02 N73-13008 *
NASA-CASE-GSC-11079-1 ..... c 37 N75-18574 *
NASA-CASE-GSC-11092-2 ..... c 04 N73-27052 *
NASA-CASE-GSC-11095-1 ..... c 14 N72-10375 * #
NASA-CASE-GSC-11126-1 ..... c 09 N72-25253 *
NASA-CASE-GSC-11127-1 ..... c 09 N75-24758 *
NASA-CASE-GSC-11133-1 ..... c 23 N72-11568 * #
NASA-CASE-GSC-11139 ..... c 09 N71-27016 *
NASA-CASE-GSC-11149-1 ..... c 15 N73-30457 *
NASA-CASE-GSC-11163-1 ..... c 15 N73-32360 *
NASA-CASE-GSC-11169-2 ..... c 05 N73-32011 *
NASA-CASE-GSC-11182-1 ..... c 15 N75-13007 *
NASA-CASE-GSC-11188-1 ..... c 14 N73-32320 *
NASA-CASE-GSC-11188-2 ..... c 21 N73-19630 * #
NASA-CASE-GSC-11188-3 ..... c 74 N74-20008 *
NASA-CASE-GSC-11205-1 ..... c 15 N73-25513 *
NASA-CASE-GSC-11211-1 ..... c 03 N72-25020 *
NASA-CASE-GSC-11214-1 ..... c 06 N73-13128 *
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NASA-CASE-GSC-11222-1 ..... c 16 N73-32391 *
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NASA-CASE-GSC-11291-1 ..... c 25 N72-33696 *
NASA-CASE-GSC-11296-1 ..... c 23 N73-30666 *
NASA-CASE-GSC-11302-1 ..... c 14 N73-13416 *
NASA-CASE-GSC-11304-1 ..... c 06 N72-21105 * #
NASA-CASE-GSC-11340-1 ..... c 10 N72-33230 *
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NASA-CASE-GSC-11367-1 ..... c 44 N74-19692 *
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NASA-CASE-GSC-11368-1 ..... c 09 N73-32108 *
NASA-CASE-GSC-11394-1 ..... c 09 N73-32109 *
NASA-CASE-GSC-11425-1 ..... c 76 N74-20329 *
NASA-CASE-GSC-11425-2 ..... c 76 N75-25730 *
NASA-CASE-GSC-11428-1 ..... c 32 N74-20864 *
NASA-CASE-GSC-11434-1 ..... c 34 N74-27859 *
NASA-CASE-GSC-11444-1 ..... c 14 N73-28490 *
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NASA-CASE-GSC-11446-1 ..... c 33 N74-20860 *
NASA-CASE-GSC-11479-1 ..... c 35 N74-28097 *
NASA-CASE-GSC-11487-1 ..... c 14 N73-30393 *
NASA-CASE-GSC-11492-1 ..... c 35 N74-26949 *
NASA-CASE-GSC-11513-1 ..... c 33 N74-20862 *
NASA-CASE-GSC-11514-1 ..... c 03 N72-24037 *
NASA-CASE-GSC-11531-1 ..... c 52 N74-27566 *
NASA-CASE-GSC-11533-1 ..... c 14 N73-13435 * #
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NASA-CASE-GSC-11560-1 ..... c 33 N74-20861 *
NASA-CASE-GSC-11569-1 ..... c 89 N74-30886 *
NASA-CASE-GSC-11571-1 ..... c 36 N77-25499 *
NASA-CASE-GSC-11577-1 ..... c 37 N75-15992 *
NASA-CASE-GSC-11577-3 ..... c 24 N79-25143 *
NASA-CASE-GSC-11582-1 ..... c 33 N75-19517 *
NASA-CASE-GSC-11600-1 ..... c 35 N74-21019 *
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NASA-CASE-GSC-11619-1 ..... c 34 N75-12222 *
NASA-CASE-GSC-11620-1 ..... c 34 N74-23039 *
NASA-CASE-GSC-11623-1 ..... c 33 N75-25040 *
NASA-CASE-GSC-11743-1 ..... c 32 N75-24981 *
NASA-CASE-GSC-11744-1 ..... c 33 N75-26243 *
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NASA-CASE-GSC-11752-1 ..... c 77 N75-20140 *
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NASA-CASE-GSC-11782-1 ..... c 74 N76-30053 *
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NASA-CASE-GSC-11862-1 ..... c 32 N76-18295 *
NASA-CASE-GSC-11868-1 ..... c 17 N76-22245 *
NASA-CASE-GSC-11877-1 ..... c 74 N76-18913 *
NASA-CASE-GSC-11883-1 ..... c 37 N77-19458 *
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NASA-CASE-GSC-12517-1 ..... c 37 N83-32067 *
NASA-CASE-GSC-12518-1 ..... c 33 N82-24421 *
NASA-CASE-GSC-12528-1 ..... c 74 N81-24900 *
NASA-CASE-GSC-12550-1 ..... c 37 N84-28082 *
NASA-CASE-GSC-12551-1 ..... c 18 N83-28064 *
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NASA-CASE-GSC-12560-1 ..... c 52 N82-29863 *
NASA-CASE-GSC-12565-1 ..... c 36 N84-14509 *
NASA-CASE-GSC-12566-1 ..... c 33 N83-34189 *
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NASA-CASE-GSC-12584-1 ..... c 37 N82-32730 *
NASA-CASE-GSC-12587-1 ..... c 35 N82-32659 *
NASA-CASE-GSC-12592-1 ..... c 36 N84-28065 *
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NASA-CASE-GSC-12619-1 ..... c 37 N84-12491 *
NASA-CASE-GSC-12622-1 ..... c 37 N84-12492 *
NASA-CASE-GSC-12630-1 ..... c 33 N83-36355 *
NASA-CASE-GSC-12636-1 ..... c 31 N83-27058 *
NASA-CASE-GSC-12640-1 ..... c 74 N84-11920 *
NASA-CASE-GSC-12643-1 ..... c 37 N83-26078 *
NASA-CASE-GSC-12645-1 ..... c 33 N84-16454 *
NASA-CASE-GSC-12646-1 ..... c 33 N83-34191 *
NASA-CASE-GSC-12650-1 ..... c 33 N84-14421 *
NASA-CASE-GSC-12652-1 ..... c 52 N84-34913 *
NASA-CASE-GSC-12682-1 ..... c 35 N84-33765 *
NASA-CASE-GSC-12683-1 ..... c 74 N83-36898 *
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NASA-CASE-GSC-12726-1 ..... c 37 N83-34323 *
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NASA-CASE-GSC-12761-1 ..... c 74 N86-32266 *
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NASA-CASE-GSC-12816-1 ..... c 76 N86-20150 *
NASA-CASE-GSC-12817-1 ..... c 33 N85-29146 *
NASA-CASE-GSC-12818-1 ..... c 33 N85-29147 *
NASA-CASE-GSC-12821-2 ..... c 33 N91-31530 *
NASA-CASE-GSC-12825-1 ..... c 74 N86-28732 *
NASA-CASE-GSC-12849-1 ..... c 74 N86-26190 *
NASA-CASE-GSC-12851-1 ..... c 35 N85-30281 *
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NASA-CASE-GSC-12970-1 ..... c 08 N88-23808 *
NASA-CASE-GSC-13008-1 ..... c 27 N88-23894 *
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NASA-CASE-GSC-13019-1 ..... c 34 N88-29133 *
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NASA-CASE-GSC-13112-1 ..... c 31 N89-29578 *
NASA-CASE-GSC-13127-1 ..... c 37 N91-17388 *
NASA-CASE-GSC-13153-1 ..... c 37 N91-17387 *
NASA-CASE-GSC-13173-1 ..... c 33 N90-23635 *
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NASA-CASE-GSC-13230-1 ..... c 37 N91-13734 * #
NASA-CASE-GSC-13237-1 ..... c 33 N91-14550 *
NASA-CASE-GSC-13239-1 ..... c 37 N91-31656 *
NASA-CASE-GSC-13251-1 ..... c 37 N91-28582 * #
NASA-CASE-GSC-13261-1 ..... c 37 N91-17401 * #
NASA-CASE-GSC-13265-1 ..... c 76 N91-14066 * #
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NASA-CASE-GSC-13306-1 ..... c 52 N91-28727 * #
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NASA-CASE-GSC-13346-1 ..... c 37 N91-28578 * #
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NASA-CASE-GSC-13369-1 ..... c 33 N91-23380 * #

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NASA-CASE-HQN-00936 ..... c 31 N71-29050 *
NASA-CASE-HQN-00937 ..... c 07 N71-28979 *
NASA-CASE-HQN-00938 ..... c 33 N71-29053 *
NASA-CASE-HQN-10037-1 ..... c 14 N73-27376 * #
NASA-CASE-HQN-10069 ..... c 33 N75-27251 *
NASA-CASE-HQN-10274-1 ..... c 27 N82-29451 *
NASA-CASE-HQN-10328-2 ..... c 27 N82-29454 *
NASA-CASE-HQN-10364 ..... c 06 N71-27363 *
NASA-CASE-HQN-10439 ..... c 21 N72-21624 *
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NASA-CASE-HQN-10541-3 ..... c 23 N72-23695 *
NASA-CASE-HQN-10541-4 ..... c 16 N71-27183 *
NASA-CASE-HQN-10542-1 ..... c 74 N75-25706 *
NASA-CASE-HQN-10595-1 ..... c 27 N82-29455 *
NASA-CASE-HQN-10638-1 ..... c 15 N73-30460 *
NASA-CASE-HQN-10654-1 ..... c 16 N73-13489 *
NASA-CASE-HQN-10683 ..... c 14 N71-34389 * #
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NASA-CASE-HQN-10756-1 ..... c 14 N72-25428 * #
NASA-CASE-HQN-10780 ..... c 14 N71-30265 *
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NASA-CASE-HQN-10790-1 ..... c 36 N74-11313 *
NASA-CASE-HQN-10792-1 ..... c 33 N74-11049 *
NASA-CASE-HQN-10832-1 ..... c 71 N74-21014 *
NASA-CASE-HQN-10841-1 ..... c 73 N78-19920 *
NASA-CASE-HQN-10844-1 ..... c 36 N75-19653 *
NASA-CASE-HQN-10862-1 ..... c 44 N76-29699 *
NASA-CASE-HQN-10876-1 ..... c 33 N76-27473 *
NASA-CASE-HQN-10880-1 ..... c 17 N78-17140 *
NASA-CASE-HQN-10888-1 ..... c 44 N79-14527 *
NASA-CASE-HQN-10931-2 ..... c 27 N82-29452 *

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NASA-CASE-KSC-10003 ..... c 10 N73-13235 *
NASA-CASE-KSC-10020 ..... c 10 N71-27338 *
NASA-CASE-KSC-10031 ..... c 15 N72-22486 *
NASA-CASE-KSC-10108 ..... c 14 N73-25461 *
NASA-CASE-KSC-10126 ..... c 11 N71-24985 *
NASA-CASE-KSC-10162 ..... c 09 N72-11225 *
NASA-CASE-KSC-10164 ..... c 07 N71-33108 *
NASA-CASE-KSC-10198 ..... c 11 N71-28629 *
NASA-CASE-KSC-10242 ..... c 15 N72-23497 *
NASA-CASE-KSC-10278 ..... c 05 N72-16015 *
NASA-CASE-KSC-10294 ..... c 14 N72-18411 *
NASA-CASE-KSC-10326 ..... c 08 N72-21197 *
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NASA-CASE-KSC-10647-1 ..... c 10 N72-31273 *
NASA-CASE-KSC-10654-1 ..... c 07 N73-30115 *
NASA-CASE-KSC-10698 ..... c 07 N73-20175 *
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NASA-CASE-KSC-10728-1 ..... c 14 N73-32319 *
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NASA-CASE-KSC-10730-1 ..... c 14 N73-32318 *
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NASA-CASE-KSC-10782-1 ..... c 33 N75-30431 *
NASA-CASE-KSC-10807-1 ..... c 33 N75-26246 *
NASA-CASE-KSC-10834-1 ..... c 33 N76-14371 *
NASA-CASE-KSC-10849-1 ..... c 52 N77-14738 *
NASA-CASE-KSC-10899-1 ..... c 33 N79-18193 *
NASA-CASE-KSC-11004-1 ..... c 54 N77-30749 *
NASA-CASE-KSC-11008-1 ..... c 33 N79-22373 *
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NASA-CASE-KSC-11018-1 ..... c 33 N79-10337 *
NASA-CASE-KSC-11023-1 ..... c 32 N79-23310 *
NASA-CASE-KSC-11025-1 ..... c 32 N83-13323 *
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NASA-CASE-KSC-11035-1 ..... c 35 N78-28411 *
NASA-CASE-KSC-11042-1 ..... c 09 N82-29330 *
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NASA-CASE-KSC-11155-1 ..... c 04 N86-19304 *
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NASA-CASE-KSC-11322-1 ..... c 54 N89-29953 *
NASA-CASE-KSC-11368-1 ..... c 37 N89-13786 *
NASA-CASE-KSC-11386-1 ..... c 35 N90-22023 *
NASA-CASE-KSC-11387-1 ..... c 29 N90-20236 *
NASA-CASE-KSC-11392-1 ..... c 74 N90-22383 *
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NASA-CASE-LAR-10121-1 ..... c 15 N71-26721 *
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NASA-CASE-LAR-10137-1 ..... c 09 N72-22204 *
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NASA-CASE-LAR-10184 ..... c 14 N72-22445 *
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NASA-CASE-LAR-10373-1 ..... c 18 N71-26155 *
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NASA-CASE-LAR-10409-1 ..... c 31 N74-21059 *
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NASA-CASE-LAR-10868-1 ..... c 33 N74-11050 *
NASA-CASE-LAR-10894-1 ..... c 18 N73-14584 *
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NASA-CASE-LAR-10907-1 ..... c 35 N76-29551 *
NASA-CASE-LAR-10910-1 ..... c 35 N74-13132 *
NASA-CASE-LAR-10913 ..... c 14 N72-16282 *
NASA-CASE-LAR-10941-1 ..... c 37 N74-21057 *
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NASA-CASE-LAR-11069-1 ..... c 35 N75-12272 *
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NASA-CASE-LAR-11144-1 ..... c 25 N75-26043 *
NASA-CASE-LAR-11155-1 ..... c 35 N74-15091 *
NASA-CASE-LAR-11173-1 ..... c 35 N75-19614 *
NASA-CASE-LAR-11201-1 ..... c 35 N78-24515 *
NASA-CASE-LAR-11207-1 ..... c 35 N75-19613 *
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NASA-CASE-LAR-11211-1 ..... c 37 N75-12326 *
NASA-CASE-LAR-11213-1 ..... c 35 N75-15014 *
NASA-CASE-LAR-11224-1 ..... c 37 N76-18456 *
NASA-CASE-LAR-11237-1 ..... c 35 N75-19612 *
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NASA-CASE-LAR-12149-2 ..... c 09 N79-31228 *
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NASA-CASE-LAR-12177-1 ..... c 36 N81-24422 *
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NASA-CASE-LAR-12181-1 ..... c 27 N78-17205 *
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NASA-CASE-LAR-12195-1 ..... c 31 N81-27324 *
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NASA-CASE-LAR-12363-2 ..... c 33 N83-24763 *
NASA-CASE-LAR-12372-1 ..... c 37 N82-18601 *
NASA-CASE-LAR-12375-1 ..... c 32 N79-24203 *
NASA-CASE-LAR-12393-1 ..... c 34 N83-34221 *
NASA-CASE-LAR-12396-1 ..... c 02 N84-28732 *
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NASA-CASE-LAR-12474-1 ..... c 35 N82-26628 *
NASA-CASE-LAR-12482-1 ..... c 37 N82-32732 *
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NASA-CASE-LAR-12868-1 ..... c 37 N85-21651 *
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NASA-CASE-LAR-13100-1 ..... c 37 N87-23982 *
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NASA-CASE-LAR-13280-1 ..... c 08 N87-20999 *
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NASA-CASE-LAR-13316-1 ..... c 27 N86-27450 *
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NASA-CASE-LAR-13387-1 ..... c 74 N88-25302 * #
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NASA-CASE-LAR-13434-1 ..... c 37 N90-23742 *
NASA-CASE-LAR-13435-1 ..... c 37 N88-23981 *
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NASA-CASE-LAR-13476-1-CU ..... c 76 N87-29360 *
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NASA-CASE-LAR-13522-1-SB ..... c 09 N87-25334 *
NASA-CASE-LAR-13528-1 ..... c 25 N88-29002 *
NASA-CASE-LAR-13532-1 ..... c 34 N91-14562 *
NASA-CASE-LAR-13542-2-SB ..... c 25 N90-20154 *
NASA-CASE-LAR-13548-1 ..... c 09 N91-28175 * #
NASA-CASE-LAR-13552-1-CU ..... c 33 N89-14385 *
NASA-CASE-LAR-13554-1 ..... c 02 N89-12551 *
NASA-CASE-LAR-13555-1 ..... c 23 N86-32526 * #
NASA-CASE-LAR-13562-1 ..... c 24 N90-25196 *
NASA-CASE-LAR-13562-2 ..... c 24 N91-25199 *
NASA-CASE-LAR-13563-1 ..... c 34 N91-23410 * #
NASA-CASE-LAR-13564-1 ..... c 35 N87-25558 * #
NASA-CASE-LAR-13569-1 ..... c 35 N89-12841 *
NASA-CASE-LAR-13580-1 ..... c 37 N91-21541 *
NASA-CASE-LAR-13597-1-CU ..... c 25 N87-23713 * #
NASA-CASE-LAR-13601-1-CU ..... c 27 N89-14337 *
NASA-CASE-LAR-13616-1 ..... c 74 N91-31950 *
NASA-CASE-LAR-13628-1 ..... c 35 N90-23707 *
NASA-CASE-LAR-13629-1 ..... c 09 N91-14356 *
NASA-CASE-LAR-13630-1 ..... c 08 N88-23809 *
NASA-CASE-LAR-13632-1 ..... c 26 N87-29650 * #
NASA-CASE-LAR-13633-1 ..... c 27 N87-24575 * #
NASA-CASE-LAR-13638-1 ..... c 31 N90-19427 *
NASA-CASE-LAR-13645-1 ..... c 27 N91-28424 * #
NASA-CASE-LAR-13662-1 ..... c 37 N88-14359 *
NASA-CASE-LAR-13678-1 ..... c 76 N90-24168 *
NASA-CASE-LAR-13680-1 ..... c 35 N87-25561 * #
NASA-CASE-LAR-13689-1-NP ..... c 35 N87-23941 * #
NASA-CASE-LAR-13696-1 ..... c 37 N90-20409 *
NASA-CASE-LAR-13705-1 ..... c 39 N88-25011 * #
NASA-CASE-LAR-13710-1 ..... c 35 N90-17117 *
NASA-CASE-LAR-13719-1 ..... c 37 N89-12867 * #
NASA-CASE-LAR-13724-1 ..... c 38 N90-23756 *
NASA-CASE-LAR-13732-1 ..... c 27 N87-25474 * #
NASA-CASE-LAR-13734-1-CU ..... c 09 N90-20096 *
NASA-CASE-LAR-13738-1 ..... c 18 N87-29586 * #
NASA-CASE-LAR-13740-1 ..... c 35 N90-22770 *
NASA-CASE-LAR-13741-1-SB ..... c 25 N90-20180 *
NASA-CASE-LAR-13742-1 ..... c 02 N91-16999 * #
NASA-CASE-LAR-13747-1-CU ..... c 32 N89-28672 *
NASA-CASE-LAR-13761-1 ..... c 34 N90-20323 *
NASA-CASE-LAR-13772-1 ..... c 36 N89-28816 * #
NASA-CASE-LAR-13773-1 ..... c 20 N90-19298 *
NASA-CASE-LAR-13775-1 ..... c 35 N90-23706 *
NASA-CASE-LAR-13776-1 ..... c 35 N88-29149 *
NASA-CASE-LAR-13777-1 ..... c 05 N90-20078 *
NASA-CASE-LAR-13780-1 ..... c 18 N91-13481 * #
NASA-CASE-LAR-13785-1 ..... c 70 N91-21824 *
NASA-CASE-LAR-13797-1 ..... c 35 N88-30108 *
NASA-CASE-LAR-13798-1 ..... c 32 N89-25363 *
NASA-CASE-LAR-13816-1 ..... c 35 N90-22025 *
NASA-CASE-LAR-13817-1 ..... c 26 N90-21170 *
NASA-CASE-LAR-13821-1 ..... c 27 N90-16950 *
NASA-CASE-LAR-13826-1 ..... c 35 N88-29150 *
NASA-CASE-LAR-13832-1 ..... c 28 N91-28444 * #
NASA-CASE-LAR-13853-1 ..... c 35 N89-14423 *
NASA-CASE-LAR-13854-1-CU ..... c 04 N91-31120 *
NASA-CASE-LAR-13855-1 ..... c 37 N91-14615 *
NASA-CASE-LAR-13870-1 ..... c 05 N90-15094 * #
NASA-CASE-LAR-13875-1 ..... c 05 N91-27156 *
NASA-CASE-LAR-13887-1 ..... c 36 N91-23472 * #
NASA-CASE-LAR-13889-1 ..... c 39 N88-30160 * #
NASA-CASE-LAR-13898-1 ..... c 37 N91-15544 *
NASA-CASE-LAR-13901-1-NP ..... c 52 N90-21519 *
NASA-CASE-LAR-13902-1 ..... c 27 N90-23546 *
NASA-CASE-LAR-13910-2-CU ..... c 27 N91-31307 *
NASA-CASE-LAR-13924-1-CU ..... c 26 N89-28621 *
NASA-CASE-LAR-13925-1 ..... c 27 N89-25334 * #
NASA-CASE-LAR-13926-1 ..... c 37 N90-22042 *
NASA-CASE-LAR-13952-1-SB ..... c 34 N90-19534 *
NASA-CASE-LAR-13952-2-SB ..... c 34 N91-31596 *
NASA-CASE-LAR-13963-1 ..... c 76 N90-24150 *
NASA-CASE-LAR-13965-1-CU ..... c 23 N90-21118 *
NASA-CASE-LAR-13965-2-CU ..... c 23 N91-14418 *
NASA-CASE-LAR-13966-1 ..... c 71 N91-27914 *
NASA-CASE-LAR-13968-1 ..... c 71 N91-27913 *
NASA-CASE-LAR-13981-1 ..... c 37 N91-21539 *
NASA-CASE-LAR-13983-1 ..... c 05 N90-23390 *
NASA-CASE-LAR-13985-1 ..... c 24 N91-14430 *
NASA-CASE-LAR-13988-1 ..... c 23 N89-11814 * #
NASA-CASE-LAR-13989-1 ..... c 35 N91-13694 *
NASA-CASE-LAR-13992-1-CU ..... c 23 N91-27220 *
NASA-CASE-LAR-13996-1-SB ..... c 25 N90-15161 * #
NASA-CASE-LAR-14001-1 ..... c 27 N90-15260 * #
NASA-CASE-LAR-14031-1 ..... c 05 N90-20079 *
NASA-CASE-LAR-14033-1 ..... c 34 N90-27072 * #
NASA-CASE-LAR-14036-1 ..... c 27 N91-13562 * #
NASA-CASE-LAR-14049-1 ..... c 07 N89-23466 * #
NASA-CASE-LAR-14050-1 ..... c 31 N90-21216 *
NASA-CASE-LAR-14056-1 ..... c 35 N90-23713 *
NASA-CASE-LAR-14062-1 ..... c 37 N90-27114 * #
NASA-CASE-LAR-14078-1-CU ..... c 34 N90-27071 * #
NASA-CASE-LAR-14088-1 ..... c 35 N91-13686 * #
NASA-CASE-LAR-14096-1 ..... c 31 N91-31476 *
NASA-CASE-LAR-14101-1 ..... c 27 N91-15403 *
NASA-CASE-LAR-14107-1 ..... c 24 N91-25200 *
NASA-CASE-LAR-14116-1 ..... c 05 N91-14345 *
NASA-CASE-LAR-14142-1 ..... c 37 N90-27116 * #
NASA-CASE-LAR-14145-1 ..... c 27 N90-26954 * #
NASA-CASE-LAR-14149-1-SB ..... c 14 N91-21176 *
NASA-CASE-LAR-14155-1-SB ..... c 25 N90-23517 *
NASA-CASE-LAR-14155-2-SB ..... c 25 N91-21270 *
NASA-CASE-LAR-14156-1 ..... c 16 N90-16781 * #
NASA-CASE-LAR-14159-1-CU ..... c 27 N90-26953 * #
NASA-CASE-LAR-14162-1 ..... c 27 N90-15259 * #
NASA-CASE-LAR-14163-1 ..... c 27 N91-13559 * #
NASA-CASE-LAR-14181-1 ..... c 76 N91-21911 *
NASA-CASE-LAR-14188-1 ..... c 27 N90-23545 *
NASA-CASE-LAR-14188-2 ..... c 23 N91-14419 *
NASA-CASE-LAR-14194-1 ..... c 24 N90-15148 * #
NASA-CASE-LAR-14198-1 ..... c 27 N90-26956 * #
NASA-CASE-LAR-14203-1 ..... c 36 N89-28817 * #
NASA-CASE-LAR-14206-1 ..... c 27 N91-28425 * #
NASA-CASE-LAR-14207-1 ..... c 35 N91-14590 *
NASA-CASE-LAR-14212-1-CU ..... c 05 N91-31140 *
NASA-CASE-LAR-14239-1 ..... c 26 N91-13527 * #
NASA-CASE-LAR-14250-1-SB ..... c 72 N91-27936 *
NASA-CASE-LAR-14271-1-CU ..... c 27 N91-13558 * #
NASA-CASE-LAR-14272-1-CU ..... c 14 N91-28184 * #
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NASA-CASE-LAR-14330-1-CU ..... c 27 N91-13560 * #
NASA-CASE-LAR-14338-1 ..... c 24 N90-26881 * #
NASA-CASE-LAR-14339-1 ..... c 27 N90-26955 * #
NASA-CASE-LAR-14340-1-CU ..... c 35 N91-13684 * #
NASA-CASE-LAR-14351-1 ..... c 27 N91-13561 * #
NASA-CASE-LAR-14352-1 ..... c 37 N91-32511 * #
NASA-CASE-LAR-14361-1 ..... c 71 N91-16707 * #
NASA-CASE-LAR-14395-1-CU ..... c 33 N91-28490 * #
NASA-CASE-LAR-14402-1-CU ..... c 74 N91-15874 * #
NASA-CASE-LAR-14424-1-SB ..... c 09 N91-32149 * #
NASA-CASE-LAR-14427-1 ..... c 23 N91-23237 * #
NASA-CASE-LAR-14435-1-CU ..... c 09 N91-26159 * #
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NASA-CASE-LAR-14459-1 ..... c 24 N91-15334 * #
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NASA-CASE-LEW-10210-1 ..... c 28 N71-26781 *
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NASA-CASE-LEW-10250-1 ..... c 22 N71-28759 *
NASA-CASE-LEW-10278-1 ..... c 15 N71-28582 *
NASA-CASE-LEW-10281-1 ..... c 14 N72-17327 *
NASA-CASE-LEW-10286-1 ..... c 28 N71-28915 *
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NASA-CASE-LEW-10327 ..... c 17 N71-33408 *
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NASA-CASE-LEW-10345-1 ..... c 10 N71-25899 *
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NASA-CASE-LEW-10359 ..... c 33 N72-25911 *
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NASA-CASE-LEW-10433-1 ..... c 09 N72-22197 *
NASA-CASE-LEW-10436-1 ..... c 17 N73-32415 *
NASA-CASE-LEW-10450-1 ..... c 15 N72-25448 *
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NASA-CASE-LEW-10874-1 ..... c 17 N72-22535 *
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NASA-CASE-LEW-12131-3 ..... c 37 N82-19540 *
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NASA-CASE-LEW-12159-1 ..... c 44 N78-19599 *
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NASA-CASE-LEW-12220-1 ..... c 44 N77-14581 *
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NASA-CASE-LEW-12236-2 ..... c 44 N79-14528 *
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NASA-CASE-LEW-12253-1 ..... c 74 N83-19596 *
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NASA-CASE-LEW-12312-1 ..... c 07 N77-32148 *
NASA-CASE-LEW-12313-1 ..... c 37 N78-10468 *
NASA-CASE-LEW-12317-1 ..... c 07 N78-17055 *
NASA-CASE-LEW-12321-1 ..... c 37 N78-10467 *
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NASA-CASE-LEW-12493-2 ..... c 24 N81-26179 *
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NASA-CASE-MFS-18495 ..... c 15 N72-11385 *
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NASA-CASE-MFS-20299 ..... c 15 N72-11392 *
NASA-CASE-MFS-20317 ..... c 15 N73-13463 *
NASA-CASE-MFS-20325 ..... c 28 N71-27095 *
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NASA-CASE-MFS-20675 ..... c 26 N73-26751 *
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NASA-CASE-MFS-20698 ..... c 15 N72-20446 *
NASA-CASE-MFS-20710 ..... c 11 N72-23215 *
NASA-CASE-MFS-20730-1 ..... c 39 N74-13131 *
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NASA-CASE-MFS-20760 ..... c 14 N72-33377 *
NASA-CASE-MFS-20761-1 ..... c 44 N74-27519 *
NASA-CASE-MFS-20767-1 ..... c 38 N74-15130 *
NASA-CASE-MFS-20774 ..... c 14 N73-19420 *
NASA-CASE-MFS-20775-1 ..... c 31 N75-12161 *
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NASA-CASE-MFS-20823-1 ..... c 16 N73-30476 *
NASA-CASE-MFS-20829 ..... c 12 N72-21310 *
NASA-CASE-MFS-20830 ..... c 15 N71-30028 *
NASA-CASE-MFS-20831 ..... c 28 N71-29153 *
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NASA-CASE-MFS-20855 ..... c 15 N73-27405 *
NASA-CASE-MFS-20861-1 ..... c 18 N73-32437 *
NASA-CASE-MFS-20863 ..... c 31 N73-26876 *
NASA-CASE-MFS-20890 ..... c 14 N72-22439 *
NASA-CASE-MFS-20916 ..... c 14 N73-25460 *
NASA-CASE-MFS-20922-1 ..... c 18 N74-22136 *
NASA-CASE-MFS-20922 ..... c 31 N72-20840 * #
NASA-CASE-MFS-20932-1 ..... c 35 N75-19616 *
NASA-CASE-MFS-20935 ..... c 09 N71-34212 * #
NASA-CASE-MFS-20944 ..... c 15 N73-13466 *
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NASA-CASE-MFS-20979 ..... c 06 N72-25151 *
NASA-CASE-MFS-20994-1 ..... c 35 N75-12271 *
NASA-CASE-MFS-21010-1 ..... c 05 N73-30078 *
NASA-CASE-MFS-21040-1 ..... c 06 N73-30098 *
NASA-CASE-MFS-21042 ..... c 07 N72-25171 *
NASA-CASE-MFS-21045-1 ..... c 35 N75-15932 *
NASA-CASE-MFS-21046-1 ..... c 14 N73-27377 *
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NASA-CASE-MFS-21077-1 ..... c 24 N75-28135 *
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NASA-CASE-MFS-21136-1 ..... c 35 N74-18323 *
NASA-CASE-MFS-21163-1 ..... c 54 N74-17853 *
NASA-CASE-MFS-21214-1 ..... c 09 N73-30181 *
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NASA-CASE-MFS-21309-1 ..... c 37 N74-18125 *
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NASA-CASE-MFS-21362 ..... c 11 N73-20267 *
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NASA-CASE-MFS-21372-1 ..... c 74 N74-27866 *
NASA-CASE-MFS-21374-1 ..... c 33 N74-12951 *
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NASA-CASE-MFS-21395-1 ..... c 25 N74-26948 *
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NASA-CASE-MFS-21424-1 ..... c 34 N74-27730 *
NASA-CASE-MFS-21433 ..... c 09 N73-20232 *
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NASA-CASE-MFS-21455-1 ..... c 35 N74-15146 *
NASA-CASE-MFS-21462-1 ..... c 33 N74-14935 *
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NASA-CASE-MFS-21481-1 ..... c 37 N74-18127 *
NASA-CASE-MFS-21485-1 ..... c 37 N74-25968 *
NASA-CASE-MFS-21488-1 ..... c 14 N75-24794 *
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NASA-CASE-MFS-21616-1 ..... c 33 N75-30429 *
NASA-CASE-MFS-21628-1 ..... c 44 N75-32581 *
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NASA-CASE-MFS-21629 ..... c 14 N72-22442 *
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NASA-CASE-MFS-21672-1 ..... c 74 N76-19935 *
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NASA-CASE-MFS-21919-1 ..... c 10 N73-25243 *
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NASA-CASE-MFS-22088-1 ..... c 33 N75-15874 *
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NASA-CASE-MFS-22145-2 ..... c 75 N76-17951 *
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NASA-CASE-MFS-22537-1 ..... c 35 N75-27328 *
NASA-CASE-MFS-22560-1 ..... c 33 N77-14335 *
NASA-CASE-MFS-22562-1 ..... c 44 N76-14595 *
NASA-CASE-MFS-22597 ..... c 36 N78-17366 *
NASA-CASE-MFS-22631-1 ..... c 66 N76-19888 *
NASA-CASE-MFS-22636-1 ..... c 37 N76-22540 *
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NASA-CASE-MFS-22671-1 ..... c 35 N75-21582 *
NASA-CASE-MFS-22671-2 ..... c 35 N77-17426 *
NASA-CASE-MFS-22707-1 ..... c 37 N76-15457 *
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NASA-CASE-MFS-22743-1 ..... c 44 N76-22657 *
NASA-CASE-MFS-22744-1 ..... c 44 N76-24696 *
NASA-CASE-MFS-22749-1 ..... c 44 N76-14601 *
NASA-CASE-MFS-22758-1 ..... c 70 N75-26789 * #
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NASA-CASE-MFS-22906-1 ..... c 75 N78-27913 *
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NASA-CASE-MFS-23194-1 ..... c 35 N78-17357 *
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NASA-CASE-MFS-23518-1 ..... c 44 N79-11469 *
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NASA-CASE-MFS-23696-1 ..... c 54 N81-26718 *
NASA-CASE-MFS-23717-1 ..... c 52 N81-25660 *
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NASA-CASE-MFS-23720-3 ..... c 43 N79-25443 *
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NASA-CASE-MFS-23725-1 ..... c 43 N79-31706 *
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NASA-CASE-MFS-23999-1 ..... c 44 N81-24520 *
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NASA-CASE-MFS-25050-1 ..... c 71 N81-15767 *
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NASA-CASE-MFS-25209-1 ..... c 33 N83-35227 *
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NASA-CASE-MFS-25215-1 ..... c 33 N83-31953 *
NASA-CASE-MFS-25242-1 ..... c 35 N83-29650 *
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NASA-CASE-MFS-25306-1 ..... c 25 N83-13187 *
NASA-CASE-MFS-25312-1 ..... c 74 N83-17305 *
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NASA-CASE-MFS-25319-1 ..... c 60 N85-33701 *
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NASA-CASE-MFS-25363-1 ..... c 37 N82-12441 *
NASA-CASE-MFS-25403-1 ..... c 18 N83-29303 *
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NASA-CASE-MFS-256704-1 ..... c 33 N84-22884 *
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NASA-CASE-MFS-25721-1 ..... c 25 N85-21280 *
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NASA-CASE-MFS-25750-1 ..... c 32 N86-20647 *
NASA-CASE-MFS-25752-1 ..... c 74 N86-21348 *
NASA-CASE-MFS-25754-1 ..... c 35 N84-28018 *
NASA-CASE-MFS-25786-2 ..... c 76 N90-20896 *
NASA-CASE-MFS-25791-1 ..... c 09 N84-27749 *
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NASA-CASE-MFS-26000-1 ..... c 74 N87-14971 *
NASA-CASE-MFS-26002-1-CU .... c 35 N86-26598 * #
NASA-CASE-MFS-26008-1-CU .... c 76 N88-14835 *
NASA-CASE-MFS-26009-1-SB ..... c 54 N88-24163 *
NASA-CASE-MFS-26011-1-SB ..... c 52 N87-24874 *
NASA-CASE-MFS-26042-1-SB ..... c 37 N91-14613 *
NASA-CASE-MFS-26047-1 ..... c 29 N90-21209 *
NASA-CASE-MFS-26049-1-NP .... c 25 N89-28603 * #
NASA-CASE-MFS-26061-1 ..... c 76 N91-16815 * #
NASA-CASE-MFS-26083-1-CU .... c 26 N90-26940 * #
NASA-CASE-MFS-26102-1-CU .... c 47 N91-15661 * #
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NASA-CASE-MFS-28122-1 ..... c 72 N88-24253 *
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NASA-CASE-MFS-28232-1 ..... c 74 N91-14835 *
NASA-CASE-MFS-28234-1 ..... c 52 N90-20616 *
NASA-CASE-MFS-28242-1 ..... c 35 N89-26202 *
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NASA-CASE-MFS-28273-1 ..... c 37 N88-23974 * #
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NASA-CASE-MSC-20841-1 ..... c 34 N87-22950 *
NASA-CASE-MSC-20841-2 ..... c 34 N88-23958 *
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NASA-CASE-MSC-20900-1 ..... c 37 N88-30131 *
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NASA-CASE-MSC-21025-4 ..... c 54 N91-14723 *
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NASA-CASE-MSC-21059-3 ..... c 35 N91-21495 *
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NASA-CASE-NPO-10051 ..... c 18 N71-24934 *
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NASA-CASE-NPO-11515-1 ..... c 33 N77-13315 *
NASA-CASE-NPO-11548 ..... c 07 N73-26118 *
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NASA-CASE-NPO-11821-1 ..... c 08 N73-26175 *
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NASA-CASE-NPO-11856-1 ..... c 36 N74-15145 *
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NASA-CASE-NPO-14328-1 ..... c 32 N80-18253 *
NASA-CASE-NPO-14329-1 ..... c 52 N81-20703 *
NASA-CASE-NPO-14340-1 ..... c 45 N80-14579 *
NASA-CASE-NPO-14350-1 ..... c 33 N80-14332 *
NASA-CASE-NPO-14361-1 ..... c 32 N82-23376 *
NASA-CASE-NPO-14362-1 ..... c 32 N80-16261 * #
NASA-CASE-NPO-14363-1 ..... c 39 N81-25400 *
NASA-CASE-NPO-14369-1 ..... c 44 N83-10501 *
NASA-CASE-NPO-14372-1 ..... c 35 N80-26635 *
NASA-CASE-NPO-14382-1 ..... c 31 N80-18231 *
NASA-CASE-NPO-14384-1 ..... c 37 N80-10494 *
NASA-CASE-NPO-14387-1 ..... c 43 N81-26509 *
NASA-CASE-NPO-14388-1 ..... c 37 N81-17432 *
NASA-CASE-NPO-14395-1 ..... c 37 N82-21587 *
NASA-CASE-NPO-14402-1 ..... c 52 N81-27783 *
NASA-CASE-NPO-14406-1 ..... c 37 N80-29703 *
NASA-CASE-NPO-14416-1 ..... c 44 N81-14389 *
NASA-CASE-NPO-14424-1 ..... c 33 N80-32650 *
NASA-CASE-NPO-14426-1 ..... c 33 N81-27396 *
NASA-CASE-NPO-14430-1 ..... c 33 N80-32650 *
NASA-CASE-NPO-14435-1 ..... c 33 N81-33405 *
NASA-CASE-NPO-14444-1 ..... c 33 N81-15192 *
NASA-CASE-NPO-14448-1 ..... c 74 N81-29963 *
NASA-CASE-NPO-14467-1 ..... c 44 N79-31753 *
NASA-CASE-NPO-14473-1 ..... c 37 N80-23654 *
NASA-CASE-NPO-14474-1 ..... c 26 N80-14229 *
NASA-CASE-NPO-14477-1 ..... c 28 N80-28536 *
NASA-CASE-NPO-14480-1 ..... c 32 N80-20448 *
NASA-CASE-NPO-14501-1 ..... c 35 N80-18357 *
NASA-CASE-NPO-14502-1 ..... c 74 N81-17888 *
NASA-CASE-NPO-14505-1 ..... c 33 N81-19393 *
NASA-CASE-NPO-14513-1 ..... c 35 N81-14287 *
NASA-CASE-NPO-14519-1 ..... c 32 N80-23524 *
NASA-CASE-NPO-14521-1 ..... c 37 N81-27519 *
NASA-CASE-NPO-14524-1 ..... c 32 N80-24510 *
NASA-CASE-NPO-14525-1 ..... c 32 N79-19195 * #
NASA-CASE-NPO-14525-2 ..... c 32 N83-31918 *
NASA-CASE-NPO-14527-1 ..... c 32 N80-24510 *
NASA-CASE-NPO-14536-1 ..... c 32 N81-14185 *
NASA-CASE-NPO-14542-1 ..... c 25 N82-23282 *
NASA-CASE-NPO-14544-1 ..... c 46 N82-12685 *
NASA-CASE-NPO-14549-2 ..... c 52 N82-33996 *
NASA-CASE-NPO-14554-1 ..... c 60 N81-27814 *
NASA-CASE-NPO-14556-1 ..... c 33 N82-24418 *
NASA-CASE-NPO-14558-1 ..... c 46 N80-24906 *
NASA-CASE-NPO-14567-1 ..... c 33 N83-18996 *
NASA-CASE-NPO-14579-1 ..... c 32 N80-18253 *
NASA-CASE-NPO-14588-1 ..... c 32 N81-25278 *
NASA-CASE-NPO-14590-1 ..... c 32 N80-18253 *
NASA-CASE-NPO-14596-1 ..... c 31 N81-33319 *
NASA-CASE-NPO-14596-3 ..... c 31 N83-31896 *
NASA-CASE-NPO-14597-2 ..... c 37 N84-28081 *
NASA-CASE-NPO-14617-1 ..... c 33 N81-24338 *
NASA-CASE-NPO-14619-1 ..... c 44 N81-17518 *
NASA-CASE-NPO-14632-1 ..... c 32 N82-18443 *
NASA-CASE-NPO-14635-1 ..... c 44 N80-24741 *
NASA-CASE-NPO-14640-1 ..... c 32 N80-32605 *
NASA-CASE-NPO-14641-1 ..... c 32 N81-29308 *
NASA-CASE-NPO-14657-1 ..... c 74 N81-17887 *
NASA-CASE-NPO-14670-1 ..... c 44 N81-19558 *
NASA-CASE-NPO-14749-1 ..... c 32 N81-14186 *
NASA-CASE-NPO-14782-1 ..... c 36 N82-28616 *
NASA-CASE-NPO-14813-1 ..... c 74 N82-24072 *
NASA-CASE-NPO-14831-1 ..... c 76 N82-30105 *
NASA-CASE-NPO-14839-1 ..... c 35 N82-15381 *
NASA-CASE-NPO-14845-1 ..... c 27 N82-28442 *
NASA-CASE-NPO-14857-1 ..... c 27 N83-19900 *
NASA-CASE-NPO-14864-1 ..... c 74 N83-19597 *
NASA-CASE-NPO-14902-1 ..... c 25 N82-29371 *
NASA-CASE-NPO-14936-1 ..... c 47 N83-32232 *
NASA-CASE-NPO-14940-1 ..... c 33 N83-31954 *
NASA-CASE-NPO-14987-1 ..... c 24 N83-33950 *
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NASA-CASE-NPO-15015-1 ..... c 25 N82-28368 *
NASA-CASE-NPO-15021-1 ..... c 36 N83-10417 *
NASA-CASE-NPO-15024-1 ..... c 32 N84-27951 *
NASA-CASE-NPO-15036-1 ..... c 74 N82-19029 *
NASA-CASE-NPO-15037-2 ..... c 37 N85-29282 *
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NASA-CASE-NPO-15102-1 ..... c 25 N81-25159 *
NASA-CASE-NPO-15111-1 ..... c 36 N82-29589 *
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NASA-CASE-NPO-15155-1 ..... c 74 N85-22139 *
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NASA-CASE-NPO-15197-1 ..... c 52 N83-25346 *
NASA-CASE-NPO-15201-1 ..... c 36 N83-35350 *
NASA-CASE-NPO-15202-1 ..... c 27 N83-34043 *
NASA-CASE-NPO-15210-1 ..... c 25 N84-22709 *
NASA-CASE-NPO-15213-1 ..... c 51 N83-17045 *
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NASA-CASE-NPO-15227-1 ..... c 37 N81-33482 *
NASA-CASE-NPO-15251-1 ..... c 31 N83-31897 *
NASA-CASE-NPO-15264-1 ..... c 04 N84-27713 *
NASA-CASE-NPO-15269-1 ..... c 44 N82-29710 *
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NASA-CASE-NPO-15304-1 ..... c 25 N83-31743 *
NASA-CASE-NPO-15334-1 ..... c 71 N83-35781 *
NASA-CASE-NPO-15341-1 ..... c 35 N84-33769 *
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NASA-CASE-NPO-15345-1 ..... c 74 N84-23247 *
NASA-CASE-NPO-15351-1 ..... c 06 N83-10040 *
NASA-CASE-NPO-15351-2 ..... c 06 N84-34443 *
NASA-CASE-NPO-15358-1 ..... c 33 N83-27126 *
NASA-CASE-NPO-15375-1 ..... c 74 N84-11921 *
NASA-CASE-NPO-15388-1 ..... c 44 N84-28203 *
NASA-CASE-NPO-15398-1 ..... c 35 N84-22931 *
NASA-CASE-NPO-15400-1 ..... c 34 N83-31993 *
NASA-CASE-NPO-15401-1 ..... c 32 N83-27085 *
NASA-CASE-NPO-15419-2 ..... c 44 N85-30474 *
NASA-CASE-NPO-15423-1 ..... c 35 N84-28016 *
NASA-CASE-NPO-15426-1 ..... c 35 N84-17555 *
NASA-CASE-NPO-15430-1 ..... c 46 N85-21846 *
NASA-CASE-NPO-15432-1 ..... c 32 N85-29117 *
NASA-CASE-NPO-15433-1 ..... c 32 N85-21428 *
NASA-CASE-NPO-15435-1 ..... c 71 N83-36846 *
NASA-CASE-NPO-15453-1 ..... c 71 N83-32515 *
NASA-CASE-NPO-15458-1 ..... c 25 N84-12262 *
NASA-CASE-NPO-15464-1 ..... c 74 N85-29749 *
NASA-CASE-NPO-15465-1 ..... c 34 N84-22903 *
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NASA-CASE-NPO-15494-1 ..... c 35 N82-25484 * #
NASA-CASE-NPO-15496-1 ..... c 44 N84-23018 *
NASA-CASE-NPO-15516-1 ..... c 36 N84-22943 *
NASA-CASE-NPO-15519-1 ..... c 32 N84-34651 *
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NASA-CASE-NPO-15530-1 ..... c 76 N83-35888 *
NASA-CASE-NPO-15539-1 ..... c 37 N82-11469 * #
NASA-CASE-NPO-15547-1 ..... c 72 N84-16959 * #
NASA-CASE-NPO-15553-1 ..... c 33 N85-29142 *
NASA-CASE-NPO-15558-1 ..... c 35 N84-34705 *
NASA-CASE-NPO-15559-1 ..... c 71 N85-30765 *
NASA-CASE-NPO-15560-1 ..... c 33 N85-21491 *
NASA-CASE-NPO-15562-1 ..... c 71 N82-27086 * #
NASA-CASE-NPO-15592-1 ..... c 71 N84-16940 *
NASA-CASE-NPO-15609-2 ..... c 25 N88-23846 *
NASA-CASE-NPO-15617-1 ..... c 35 N87-21304 *
NASA-CASE-NPO-15625-1 ..... c 76 N83-20789 *
NASA-CASE-NPO-15629-1 ..... c 76 N84-35113 *
NASA-CASE-NPO-15640-1 ..... c 27 N84-22748 *
NASA-CASE-NPO-15644-1 ..... c 35 N84-33767 *
NASA-CASE-NPO-15651-1 ..... c 43 N85-21723 *
NASA-CASE-NPO-15656-1 ..... c 43 N84-23012 * #
NASA-CASE-NPO-15658-1 ..... c 26 N86-32551 *
NASA-CASE-NPO-15662-1 ..... c 44 N84-28204 *
NASA-CASE-NPO-15689-1 ..... c 71 N84-23233 *
NASA-CASE-NPO-15696-1 ..... c 33 N85-34333 *
NASA-CASE-NPO-15704-1 ..... c 32 N85-34327 *
NASA-CASE-NPO-15706-1 ..... c 35 N84-28017 *
NASA-CASE-NPO-15722-1 ..... c 35 N85-29212 *
NASA-CASE-NPO-15743-1 ..... c 32 N85-29118 *
NASA-CASE-NPO-15753-1 ..... c 27 N84-33589 *
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NASA-CASE-NPO-15772-1 ..... c 76 N85-29800 *
NASA-CASE-NPO-15786-1 ..... c 76 N84-35112 * #
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NASA-CASE-NPO-15790-1 ..... c 36 N85-21631 *
NASA-CASE-NPO-15800-2 ..... c 76 N87-23286 *
NASA-CASE-NPO-15801-1 ..... c 74 N85-23396 *
NASA-CASE-NPO-15805-1 ..... c 74 N84-28590 *
NASA-CASE-NPO-15808-1 ..... c 44 N84-34792 *
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NASA-CASE-NPO-15813-1 ..... c 76 N85-30922 *
NASA-CASE-NPO-15813-2 ..... c 76 N87-15882 *
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NASA-CASE-NPO-15904-1 ..... c 76 N86-28760 *
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NASA-CASE-NPO-15959-2 ..... c 37 N91-14616 *
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NASA-CASE-NPO-15982-1 ..... c 60 N87-21591 *
NASA-CASE-NPO-16000-1 ..... c 36 N85-29264 *
NASA-CASE-NPO-16021-1 ..... c 33 N85-30187 *
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NASA-CASE-NPO-16027-1 ..... c 35 N85-21597 *
NASA-CASE-NPO-16030-1 ..... c 36 N84-25037 * #
NASA-CASE-NPO-16038-1 ..... c 37 N86-19605 *
NASA-CASE-NPO-16045-1 ..... c 76 N87-13313 *
NASA-CASE-NPO-16061-1-CU .... c 72 N87-21660 *
NASA-CASE-NPO-16103-1 ..... c 27 N85-29043 *
NASA-CASE-NPO-16112-1 ..... c 33 N86-19516 *
NASA-CASE-NPO-16116-2 ..... c 60 N88-29310 *
NASA-CASE-NPO-16135-1 ..... c 25 N83-24572 * #
NASA-CASE-NPO-16142-1-CU .... c 35 N86-20752 *
NASA-CASE-NPO-16147-1-CU .... c 71 N85-29693 *
NASA-CASE-NPO-16155-1 ..... c 44 N85-30475 *
NASA-CASE-NPO-16171-1CU ..... c 04 N86-27270 *
NASA-CASE-NPO-16203-1 ..... c 23 N85-35227 *
NASA-CASE-NPO-16233-1 ..... c 37 N86-20801 * #
NASA-CASE-NPO-16236-1 ..... c 44 N86-27706 *
NASA-CASE-NPO-16256-1 ..... c 32 N87-21207 *
NASA-CASE-NPO-16257-1 ..... c 31 N85-29082 *
NASA-CASE-NPO-16271-1 ..... c 35 N86-25753 *
NASA-CASE-NPO-16299-1 ..... c 33 N87-14594 *
NASA-CASE-NPO-16306-1-CU .... c 76 N91-15898 *
NASA-CASE-NPO-16321-1CU ..... c 37 N87-17034 *
NASA-CASE-NPO-16337-1-CU .... c 33 N87-22894 *
NASA-CASE-NPO-16372-1 ..... c 72 N86-33127 *
NASA-CASE-NPO-16392-1 ..... c 25 N86-25428 *
NASA-CASE-NPO-16393-1-CU .... c 31 N87-21159 *
NASA-CASE-NPO-16402-2 ..... c 33 N88-24862 *
NASA-CASE-NPO-16414-1-CU .... c 32 N87-25511 *
NASA-CASE-NPO-16420-1 ..... c 33 N86-20681 * #
NASA-CASE-NPO-16423-1-CU .... c 37 N87-21334 *
NASA-CASE-NPO-16433-1 ..... c 36 N87-23961 *
NASA-CASE-NPO-16461-1CU ..... c 60 N89-26400 *
NASA-CASE-NPO-16462-1-CU .... c 60 N88-24169 *
NASA-CASE-NPO-16464-1CU ..... c 60 N86-24224 * #

NASA-CASE-NPO-16467-1-CU .... c 33 N87-23879 *
NASA-CASE-NPO-16479-ICU ..... c 35 N86-32695 * #
NASA-CASE-NPO-16494-1-CU .... c 34 N85-29182 * #
NASA-CASE-NPO-16497-1-CU .... c 36 N87-25567 *
NASA-CASE-NPO-16526-1CU ..... c 44 N87-17399 *
NASA-CASE-NPO-16542-1-CU .... c 36 N87-23960 *
NASA-CASE-NPO-16544-1-CU .... c 35 N87-22953 *
NASA-CASE-NPO-16558-1-CU .... c 74 N87-23259 *
NASA-CASE-NPO-16567-1-CU .... c 36 N87-28006 *
NASA-CASE-NPO-16584-1-CU .... c 76 N86-25269 * #
NASA-CASE-NPO-16607-1-CU .... c 76 N88-14836 *
NASA-CASE-NPO-16617-2-CU .... c 35 N90-17118 *
NASA-CASE-NPO-16632-1-CU .... c 32 N87-15390 * #
NASA-CASE-NPO-16635-1-CU .... c 31 N91-32240 *
NASA-CASE-NPO-16640-1-CU .... c 72 N87-21661 *
NASA-CASE-NPO-16675-1-CU .... c 71 N88-24241 *
NASA-CASE-NPO-16681-1-CU .... c 76 N88-24543 *
NASA-CASE-NPO-16734-1-CU .... c 31 N88-14223 *
NASA-CASE-NPO-16750-1-CU .... c 74 N89-14078 *
NASA-CASE-NPO-16764-1-CU .... c 33 N88-14270 *
NASA-CASE-NPO-16766-1-CU .... c 37 N89-13785 *
NASA-CASE-NPO-16784-1 ..... c 33 N87-10231 * #
NASA-CASE-NPO-16789-1-CU .... c 72 N89-29169 *
NASA-CASE-NPO-16808-1-CU .... c 76 N87-25868 * #
NASA-CASE-NPO-16859-1-CU .... c 60 N90-21527 *
NASA-CASE-NPO-16869-1CU ..... c 74 N86-33138 * #
*NASA-CASE-NPO-16878-1-CU .... c 35 N90-20351 **
NASA-CASE-NPO-16882-1-CU .... c 33 N88-24863 * #
NASA-CASE-NPO-16888-1-CU .... c 33 N89-29681 *
NASA-CASE-NPO-16892-1-CU .... c 37 N87-14704 * #
NASA-CASE-NPO-16896-1-CU .... c 71 N89-13236 *
NASA-CASE-NPO-16901-1-CU .... c 31 N90-19425 *
NASA-CASE-NPO-16904-2-CU .... c 32 N91-14523 *
NASA-CASE-NPO-16907-1-CU .... c 25 N88-24732 *
NASA-CASE-NPO-16932-1CU ..... c 33 N87-15413 * #
NASA-CASE-NPO-16949-1-CU .... c 62 N90-19776 *
NASA-CASE-NPO-16985-1-CU .... c 31 N91-15423 *
NASA-CASE-NPO-16987-1-CU .... c 32 N91-25316 *
NASA-CASE-NPO-16989-1-CU .... c 35 N91-14587 *
NASA-CASE-NPO-16995-1-CU .... c 71 N90-12289 *
NASA-CASE-NPO-17022-1-CU .... c 29 N87-25489 * #
NASA-CASE-NPO-17024-1-CU .... c 35 N88-24943 * #
NASA-CASE-NPO-17058-1-CU .... c 62 N87-25803 * #
NASA-CASE-NPO-17068-1-CU .... c 35 N88-29151 *
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NASA-CASE-NPO-17122-1-CU .... c 27 N91-14489 *
NASA-CASE-NPO-17134-1-CU .... c 33 N91-31528 *
NASA-CASE-NPO-17139-1-CU .... c 74 N88-25301 * #
NASA-CASE-NPO-17140-1-CU .... c 74 N89-14077 *
NASA-CASE-NPO-17143-1-CU .... c 31 N89-14351 *
NASA-CASE-NPO-17144-1-CU .... c 74 N88-25305 * #
NASA-CASE-NPO-17157-1-CU .... c 33 N88-26596 *
NASA-CASE-NPO-17184-1-CU .... c 32 N88-26541 * #
NASA-CASE-NPO-17185-1-CU .... c 62 N91-14772 *
NASA-CASE-NPO-17196-1-CU .... c 32 N88-29076 *
NASA-CASE-NPO-17197-1-CU .... c 62 N91-25693 * #
NASA-CASE-NPO-17203-1-CU .... c 34 N90-23700 *
NASA-CASE-NPO-17204-1-CU .... c 34 N91-25380 *
NASA-CASE-NPO-17205-1-CU .... c 60 N90-21525 *
NASA-CASE-NPO-17207-1-CU .... c 74 N88-25304 * #
NASA-CASE-NPO-17233-1-CU .... c 33 N88-29095 * #
NASA-CASE-NPO-17235-1-CU .... c 35 N90-21358 *
NASA-CASE-NPO-17241-1-CU .... c 33 N90-23636 *
NASA-CASE-NPO-17249-1-CU .... c 32 N89-28676 *
NASA-CASE-NPO-17258-1-CU .... c 33 N91-14551 *
NASA-CASE-NPO-17259-1-CU .... c 76 N90-19884 *
NASA-CASE-NPO-17275-1-CU .... c 37 N89-29750 * #
NASA-CASE-NPO-17278-1-CU .... c 31 N90-21215 *
NASA-CASE-NPO-17280-1-CU .... c 17 N90-21061 *
NASA-CASE-NPO-17282-1-CU .... c 36 N91-15528 *
NASA-CASE-NPO-17291-1-CU .... c 34 N88-23946 * #
NASA-CASE-NPO-17301-1-CU .... c 31 N90-23587 *
NASA-CASE-NPO-17310-1-CU .... c 17 N88-28946 * #
NASA-CASE-NPO-17325-1-CU .... c 32 N90-17005 *
NASA-CASE-NPO-17334-1-CU .... c 31 N88-23917 * #
NASA-CASE-NPO-17354-1-CU .... c 37 N90-17153 *
NASA-CASE-NPO-17355-1-CU .... c 36 N91-17360 * #
NASA-CASE-NPO-17390-1-CU .... c 35 N90-22769 *
NASA-CASE-NPO-17393-1-CU .... c 33 N89-29679 * #
NASA-CASE-NPO-17394-1-CU .... c 60 N91-31810 *
NASA-CASE-NPO-17399-1-CU .... c 76 N89-14120 * #
NASA-CASE-NPO-17401-1-CU .... c 63 N91-31885 *
NASA-CASE-NPO-17426-1-CU .... c 33 N91-21434 *
NASA-CASE-NPO-17430-1-CU .... c 33 N90-21951 *
NASA-CASE-NPO-17436-1-CU .... c 35 N91-15512 *
NASA-CASE-NPO-17461-1-CU .... c 35 N91-17350 *
NASA-CASE-NPO-17479-1-CU .... c 34 N91-13658 * #
NASA-CASE-NPO-17498-1-CU .... c 72 N91-14813 *
NASA-CASE-NPO-17511-1-CU .... c 71 N91-14807 *
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NASA-CASE-NPO-17524-1-CU .... c 27 N90-10261 * #
NASA-CASE-NPO-17525-1-CU .... c 60 N90-25583 *
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NASA-CASE-NPO-17548-1-CU .... c 32 N90-16104 * #
NASA-CASE-NPO-17564-1-CU .... c 32 N90-16974 * #
NASA-CASE-NPO-17569-1-CU .... c 31 N90-26176 * #
NASA-CASE-NPO-17596-1-CU .... c 35 N89-28795 * #
NASA-CASE-NPO-17604-1-CU .... c 33 N91-14536 *
NASA-CASE-NPO-17612-1-CU .... c 74 N90-27487 * #
NASA-CASE-NPO-17620-1-CU .... c 71 N91-14808 *
NASA-CASE-NPO-17621-1-CU .... c 33 N90-17010 * #
NASA-CASE-NPO-17625-1-CU .... c 34 N90-27070 * #
NASA-CASE-NPO-17628-1-CU .... c 32 N89-28684 * #
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NASA-CASE-NPO-17630-1-CU .... c 31 N89-29577 * #
NASA-CASE-NPO-17632-1-CU .... c 60 N91-32805 * #
NASA-CASE-NPO-17633-1-CU .... c 27 N91-27372 *
NASA-CASE-NPO-17640-1-CU .... c 33 N91-14538 *
NASA-CASE-NPO-17653-1-CU .... c 51 N90-27239 * #
NASA-CASE-NPO-17664-1-CU .... c 62 N91-32852 *
NASA-CASE-NPO-17678-1-CU .... c 76 N91-28014 *
NASA-CASE-NPO-17703-1-CU .... c 74 N91-27957 *
NASA-CASE-NPO-17716-1-CU .... c 62 N90-10608 * #
NASA-CASE-NPO-17723-1-CU .... c 76 N90-26685 * #
NASA-CASE-NPO-17724-1-CU .... c 76 N90-27517 * #
NASA-CASE-NPO-17736-1-CU .... c 76 N90-17455 * #
NASA-CASE-NPO-17784-1-CU .... c 74 N91-13998 * #
NASA-CASE-NPO-17785-1-CU .... c 37 N89-28846 * #
NASA-CASE-NPO-17786-1-CU .... c 35 N90-17104 * #
NASA-CASE-NPO-17800-1-CU .... c 37 N91-13724 * #
*NASA-CASE-NPO-17801-1-CU .... c 37 N91-21544 **
NASA-CASE-NPO-17803-1-CU .... c 62 N90-27385 * #
NASA-CASE-NPO-17806-1-CU .... c 31 N91-27385 *
NASA-CASE-NPO-17809-1-CU .... c 33 N91-27478 *
NASA-CASE-NPO-17812-1-CU .... c 76 N90-17456 * #
NASA-CASE-NPO-17820-1-CU .... c 04 N91-14321 *
NASA-CASE-NPO-17824-1-CU .... c 36 N90-17132 *
NASA-CASE-NPO-17826-1-CU .... c 27 N90-26952 * #
NASA-CASE-NPO-17830-1-CU .... c 33 N91-14539 *
NASA-CASE-NPO-17831-1-CU .... c 43 N91-14642 *
NASA-CASE-NPO-17835-1-CU .... c 76 N90-27518 * #
NASA-CASE-NPO-17845-1-CU .... c 61 N90-27341 * #
NASA-CASE-NPO-17852-1-CU .... c 63 N91-23783 * #
NASA-CASE-NPO-17853-1-CU .... c 32 N91-25318 *
NASA-CASE-NPO-17858-1-CU .... c 24 N90-26880 * #
NASA-CASE-NPO-17896-1-CU .... c 32 N91-27439 *
NASA-CASE-NPO-17897-1-CU .... c 33 N90-27040 * #
NASA-CASE-NPO-17904-1-CU .... c 32 N91-13594 * #
NASA-CASE-NPO-17911-1-CU .... c 32 N90-27016 * #
NASA-CASE-NPO-17913-1-CU .... c 74 N90-27488 * #
NASA-CASE-NPO-17914-1-CU .... c 39 N91-13767 * #
NASA-CASE-NPO-17917-1-CU .... c 37 N90-26339 * #
NASA-CASE-NPO-17922-1-CU .... c 33 N91-13621 * #
NASA-CASE-NPO-17937-1-CU .... c 43 N91-21621 *
NASA-CASE-NPO-17939-1-CU .... c 60 N90-26518 * #
NASA-CASE-NPO-17941-1-CU .... c 32 N91-13595 * #
NASA-CASE-NPO-17954-1-CU .... c 60 N90-26519 * #
NASA-CASE-NPO-17970-1-CU .... c 43 N90-26384 * #
NASA-CASE-NPO-17997-1-CU .... c 60 N91-13888 * #
NASA-CASE-NPO-18028-1-CU .... c 74 N91-24878 * #
NASA-CASE-NPO-18034-1-CU .... c 44 N91-13796 * #
NASA-CASE-NPO-18075-1-CU .... c 33 N91-13622 * #
NASA-CASE-NPO-18095-1-CU .... c 74 N91-32923 * #
NASA-CASE-NPO-18098-1-CU .... c 74 N91-23890 * #
NASA-CASE-NPO-18101-1-CU .... c 74 N91-25841 *
NASA-CASE-NPO-18115-1-CU .... c 47 N91-23662 * #
NASA-CASE-NPO-18116-1-CU .... c 37 N91-32509 * #
NASA-CASE-NPO-18134-1-CU .... c 37 N91-32510 * #
NASA-CASE-NPO-18194-1-CU .... c 74 N91-32924 * #
NASA-CASE-NPO-18243-1-CU .... c 36 N91-32489 * #
NASA-CASE-NPO-18278-1-CU .... c 74 N91-32925 * #
NASA-CASE-NPO-18317-1-CU .... c 74 N91-32926 * #

NASA-CASE-NST-00007-1 ..... c 45 N91-14662 *

NASA-CASE-NSTL-10 ..... c 45 N84-12654 *

NASA-CASE-NUC-10107-1 ..... c 33 N74-17930 *

NASA-CASE-SSC-00004-1 ..... c 37 N91-14609 *
NASA-CASE-SSC-00006-1 ..... c 35 N91-13691 * #
NASA-CASE-SSC-00008-1 ..... c 37 N91-13733 * #
NASA-CASE-SSC-00010-1 ..... c 82 N91-23976 * #
NASA-CASE-SSC-00013-1 ..... c 38 N91-32515 * #

NASA-CASE-WLP-10002 ..... c 15 N72-17451 *
NASA-CASE-WLP-10055-1 ..... c 35 N84-28015 *
NASA-CASE-WLP-10055-2 ..... c 35 N85-21598 *

NASA-CASE-WOO-00428-1 ..... c 32 N79-19186 *
NASA-CASE-WOO-00625 ..... c 37 N78-17385 *

NASA-CASE-XAC-00001 ..... c 15 N71-28952 *
NASA-CASE-XAC-00030 ..... c 14 N70-34820 *
NASA-CASE-XAC-00042 ..... c 14 N70-34816 *
NASA-CASE-XAC-00048 ..... c 02 N71-29128 *
NASA-CASE-XAC-00060 ..... c 09 N70-39915 *
NASA-CASE-XAC-00073 ..... c 14 N70-34813 *
NASA-CASE-XAC-00074 ..... c 15 N70-34817 *
NASA-CASE-XAC-00086 ..... c 09 N70-33182 *
NASA-CASE-XAC-00139 ..... c 02 N70-34856 *
NASA-CASE-XAC-00319 ..... c 25 N70-41628 *
NASA-CASE-XAC-00399 ..... c 11 N70-34815 *
NASA-CASE-XAC-00404 ..... c 08 N70-40125 *
NASA-CASE-XAC-00405 ..... c 05 N70-41819 *
NASA-CASE-XAC-00435 ..... c 09 N70-35440 *
NASA-CASE-XAC-00472 ..... c 15 N70-40180 *
NASA-CASE-XAC-00648 ..... c 14 N70-40400 *
NASA-CASE-XAC-00731 ..... c 11 N71-15960 *
NASA-CASE-XAC-00812 ..... c 14 N71-15598 *
NASA-CASE-XAC-00942 ..... c 10 N71-16042 *
NASA-CASE-XAC-01101 ..... c 14 N70-41957 *
NASA-CASE-XAC-01158 ..... c 15 N71-23051 *
NASA-CASE-XAC-01404 ..... c 05 N70-41581 *
NASA-CASE-XAC-01591 ..... c 31 N71-17729 *
NASA-CASE-XAC-01662 ..... c 14 N71-23037 *
NASA-CASE-XAC-01677 ..... c 09 N71-20816 *
NASA-CASE-XAC-02058 ..... c 02 N71-16087 *
NASA-CASE-XAC-02405 ..... c 09 N71-16089 *
NASA-CASE-XAC-02407 ..... c 14 N69-27423 * #
NASA-CASE-XAC-02807 ..... c 09 N71-23021 *
NASA-CASE-XAC-02877 ..... c 14 N70-41681 *
NASA-CASE-XAC-02970 ..... c 14 N69-39896 * #
NASA-CASE-XAC-02981 ..... c 14 N71-21072 *
NASA-CASE-XAC-03107 ..... c 23 N71-16098 *
NASA-CASE-XAC-03392 ..... c 03 N70-41954 *
*NASA-CASE-XAC-03740 ..... c 14 N71-26135 **
NASA-CASE-XAC-03777 ..... c 10 N71-15909 *
NASA-CASE-XAC-04030 ..... c 10 N71-19472 *
NASA-CASE-XAC-04031 ..... c 08 N71-18594 *
NASA-CASE-XAC-04458 ..... c 14 N71-24232 *
NASA-CASE-XAC-04885 ..... c 14 N71-23790 *
NASA-CASE-XAC-04886-1 ..... c 14 N71-20439 *
NASA-CASE-XAC-05333 ..... c 11 N71-22875 *
NASA-CASE-XAC-05422 ..... c 04 N71-23185 *
NASA-CASE-XAC-05462-2 ..... c 10 N72-17171 *
NASA-CASE-XAC-05506-1 ..... c 24 N71-16095 *
NASA-CASE-XAC-05632 ..... c 32 N71-23971 *
NASA-CASE-XAC-05695 ..... c 25 N71-16073 *
NASA-CASE-XAC-05706 ..... c 05 N71-12342 *
NASA-CASE-XAC-05902 ..... c 11 N71-18578 *
NASA-CASE-XAC-06029-1 ..... c 31 N71-24813 *
NASA-CASE-XAC-06302 ..... c 08 N71-19763 *
NASA-CASE-XAC-06956 ..... c 15 N71-21177 *
NASA-CASE-XAC-07043 ..... c 05 N71-23161 *
NASA-CASE-XAC-08494 ..... c 30 N71-15990 *
NASA-CASE-XAC-08972 ..... c 02 N71-20570 *
NASA-CASE-XAC-08981 ..... c 09 N69-39897 * #
NASA-CASE-XAC-09489-1 ..... c 15 N71-26673 *
NASA-CASE-XAC-10019 ..... c 15 N71-23809 *
NASA-CASE-XAC-10607 ..... c 10 N71-23669 *
NASA-CASE-XAC-10608-1 ..... c 09 N71-12517 *
NASA-CASE-XAC-10768 ..... c 09 N71-18830 *
NASA-CASE-XAC-10770-1 ..... c 16 N71-24828 *
NASA-CASE-XAC-11225 ..... c 14 N69-27486 * #

NASA-CASE-XAR-01547 ..... c 05 N69-21473 * #
NASA-CASE-XAR-03786 ..... c 09 N69-21313 * #

NASA-CASE-XER-07894 ..... c 09 N71-18721 *
NASA-CASE-XER-07895 ..... c 26 N72-25679 *
NASA-CASE-XER-07896-2 ..... c 23 N72-22673 *
NASA-CASE-XER-08476-1 ..... c 26 N72-17820 *
NASA-CASE-XER-09213 ..... c 07 N71-12390 *
NASA-CASE-XER-09519 ..... c 14 N71-18483 *
NASA-CASE-XER-09521 ..... c 09 N72-12136 *
NASA-CASE-XER-11019 ..... c 09 N71-23598 *
NASA-CASE-XER-11046-2 ..... c 33 N74-22864 *
NASA-CASE-XER-11046 ..... c 09 N72-22203 *
NASA-CASE-XER-11203 ..... c 14 N71-28994 *

NASA-CASE-XFR-00181 ..... c 21 N70-33279 *
NASA-CASE-XFR-00756 ..... c 02 N71-13421 *
NASA-CASE-XFR-00811 ..... c 15 N70-36901 *
NASA-CASE-XFR-00929 ..... c 31 N70-34966 *
NASA-CASE-XFR-02007 ..... c 12 N71-24692 *
NASA-CASE-XFR-03107 ..... c 09 N71-19449 *
NASA-CASE-XFR-03802 ..... c 33 N71-23085 *
NASA-CASE-XFR-04104 ..... c 03 N70-42073 *
NASA-CASE-XFR-04147 ..... c 11 N71-10748 *
NASA-CASE-XFR-05302 ..... c 15 N71-23254 *
NASA-CASE-XFR-05421 ..... c 15 N71-22994 *
NASA-CASE-XFR-05637 ..... c 09 N71-19480 *
NASA-CASE-XFR-07172 ..... c 05 N71-27234 *
NASA-CASE-XFR-07658-1 ..... c 05 N71-26293 *
NASA-CASE-XFR-08403 ..... c 05 N71-11202 *
NASA-CASE-XFR-09479 ..... c 14 N69-27503 * #
NASA-CASE-XFR-10856 ..... c 05 N71-11189 *

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NASA-CASE-XGS-00174 ..... c 08 N70-34743 *
NASA-CASE-XGS-00260 ..... c 31 N70-37924 *
NASA-CASE-XGS-00359 ..... c 14 N70-34158 *
NASA-CASE-XGS-00373 ..... c 23 N71-15978 *
NASA-CASE-XGS-00381 ..... c 09 N70-34819 *
NASA-CASE-XGS-00458 ..... c 09 N70-38604 *

NASA-CASE-XGS-00466 ..... c 21 N70-34297 *
NASA-CASE-XGS-00473 ..... c 03 N70-38713 *
NASA-CASE-XGS-00587 ..... c 15 N70-35087 *
NASA-CASE-XGS-00619 ..... c 30 N70-40016 *
NASA-CASE-XGS-00689 ..... c 08 N70-34787 *
NASA-CASE-XGS-00740 ..... c 07 N71-23098 *
NASA-CASE-XGS-00769 ..... c 14 N70-41647 *
NASA-CASE-XGS-00783 ..... c 30 N71-17788 *
NASA-CASE-XGS-00809 ..... c 21 N70-35427 *
NASA-CASE-XGS-00823 ..... c 10 N71-15910 *
NASA-CASE-XGS-00824 ..... c 15 N71-16078 *
NASA-CASE-XGS-00829-1 ..... c 44 N79-19447 *
NASA-CASE-XGS-00886 ..... c 03 N71-11053 *
NASA-CASE-XGS-00938 ..... c 32 N70-41367 *
NASA-CASE-XGS-00963 ..... c 15 N69-39735 * #
NASA-CASE-XGS-01013 ..... c 14 N71-23725 *
NASA-CASE-XGS-01021 ..... c 08 N71-21042 *
NASA-CASE-XGS-01022 ..... c 07 N71-16088 *
NASA-CASE-XGS-01023 ..... c 14 N71-22992 *
NASA-CASE-XGS-01036 ..... c 14 N70-40003 *
NASA-CASE-XGS-01052 ..... c 14 N71-15992 *
NASA-CASE-XGS-01110 ..... c 07 N69-24334 * #
NASA-CASE-XGS-01118 ..... c 10 N71-23662 *
NASA-CASE-XGS-01143 ..... c 31 N71-15647 *
NASA-CASE-XGS-01155 ..... c 10 N71-21483 *
NASA-CASE-XGS-01159 ..... c 21 N71-10678 *
NASA-CASE-XGS-01222 ..... c 10 N71-20841 *
NASA-CASE-XGS-01223 ..... c 07 N71-10609 *
NASA-CASE-XGS-01230 ..... c 08 N71-19544 *
NASA-CASE-XGS-01231 ..... c 14 N70-41676 *
NASA-CASE-XGS-01245-1 ..... c 35 N79-33449 *
NASA-CASE-XGS-01286-1 ..... c 37 N79-33469 *
NASA-CASE-XGS-01293-1 ..... c 35 N79-33450 *
NASA-CASE-XGS-01331 ..... c 14 N71-22996 *
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NASA-CASE-XGS-01473 ..... c 09 N71-10673 *
NASA-CASE-XGS-01475 ..... c 03 N71-11058 *
NASA-CASE-XGS-01504 ..... c 16 N70-41578 *
NASA-CASE-XGS-01513 ..... c 03 N71-23336 *
NASA-CASE-XGS-01537 ..... c 07 N71-23405 *
NASA-CASE-XGS-01587 ..... c 14 N71-15962 *
NASA-CASE-XGS-01590 ..... c 07 N71-12392 *
NASA-CASE-XGS-01593 ..... c 03 N70-35408 *
NASA-CASE-XGS-01654 ..... c 31 N71-24750 *
NASA-CASE-XGS-01674 ..... c 03 N71-29129 *
NASA-CASE-XGS-01725 ..... c 14 N69-39982 * #
NASA-CASE-XGS-01784 ..... c 10 N71-20782 *
NASA-CASE-XGS-01812 ..... c 07 N71-23001 *
NASA-CASE-XGS-01881 ..... c 09 N70-40123 *
NASA-CASE-XGS-01971 ..... c 15 N71-15922 *
NASA-CASE-XGS-01983 ..... c 10 N70-41964 *
NASA-CASE-XGS-02011 ..... c 15 N71-20739 *
NASA-CASE-XGS-02171 ..... c 09 N69-24324 * #
NASA-CASE-XGS-02290 ..... c 07 N71-28809 *
NASA-CASE-XGS-02317 ..... c 09 N71-23525 *
NASA-CASE-XGS-02319 ..... c 14 N71-22965 *
NASA-CASE-XGS-02401 ..... c 14 N69-27485 * #
NASA-CASE-XGS-02422 ..... c 15 N71-21529 *
NASA-CASE-XGS-02435 ..... c 18 N71-22998 *
NASA-CASE-XGS-02437 ..... c 15 N69-21472 * #
NASA-CASE-XGS-02439 ..... c 14 N71-19431 *
NASA-CASE-XGS-02440 ..... c 08 N71-19432 *
NASA-CASE-XGS-02441 ..... c 15 N70-41629 *
NASA-CASE-XGS-02554 ..... c 31 N71-21064 *
NASA-CASE-XGS-02607 ..... c 31 N71-23009 *
NASA-CASE-XGS-02608 ..... c 07 N70-41678 *
NASA-CASE-XGS-02610 ..... c 14 N71-23174 *
NASA-CASE-XGS-02612 ..... c 08 N71-19435 *
NASA-CASE-XGS-02629 ..... c 14 N71-21082 *
NASA-CASE-XGS-02630 ..... c 03 N71-22974 *
NASA-CASE-XGS-02631 ..... c 03 N71-23006 *
NASA-CASE-XGS-02749 ..... c 07 N69-39978 * #
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NASA-CASE-XGS-02812 ..... c 09 N71-19466 *
NASA-CASE-XGS-02816 ..... c 07 N69-24323 * #
NASA-CASE-XGS-02884 ..... c 15 N71-22705 *
NASA-CASE-XGS-02889 ..... c 07 N71-11282 *
NASA-CASE-XGS-03058 ..... c 10 N71-19547 *
NASA-CASE-XGS-03095 ..... c 09 N69-27463 * #
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NASA-CASE-XGS-03230 ..... c 14 N71-23401 *
NASA-CASE-XGS-03303 ..... c 08 N71-18595 *
NASA-CASE-XGS-03304 ..... c 09 N71-22988 *
NASA-CASE-XGS-03351 ..... c 31 N71-16081 *
NASA-CASE-XGS-03390 ..... c 03 N71-23187 *
NASA-CASE-XGS-03427 ..... c 10 N71-23029 *
NASA-CASE-XGS-03429 ..... c 03 N69-21330 * #
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NASA-CASE-XGS-03501 ..... c 09 N71-20864 *
NASA-CASE-XGS-03502 ..... c 10 N71-20852 *
NASA-CASE-XGS-03505 ..... c 03 N71-10608 *
NASA-CASE-XGS-03532 ..... c 14 N71-17627 *
NASA-CASE-XGS-03556 ..... c 27 N70-35534 *
NASA-CASE-XGS-03632 ..... c 09 N71-23311 *
NASA-CASE-XGS-03644 ..... c 16 N71-18614 *
NASA-CASE-XGS-03736 ..... c 14 N72-22443 *
NASA-CASE-XGS-03864 ..... c 15 N69-24320 * #
NASA-CASE-XGS-03865 ..... c 14 N69-21363 * #
NASA-CASE-XGS-04047-2 ..... c 03 N72-11062 *
NASA-CASE-XGS-04119 ..... c 18 N69-39979 * #
NASA-CASE-XGS-04173 ..... c 19 N71-26674 *
NASA-CASE-XGS-04175 ..... c 15 N71-18579 *
NASA-CASE-XGS-04224 ..... c 10 N71-26418 *
NASA-CASE-XGS-04227 ..... c 15 N71-21744 *
NASA-CASE-XGS-04393 ..... c 21 N71-14159 *
NASA-CASE-XGS-04478 ..... c 14 N71-24233 *
NASA-CASE-XGS-04480 ..... c 16 N69-27491 * #
NASA-CASE-XGS-04531 ..... c 03 N69-24267 * #
NASA-CASE-XGS-04548 ..... c 15 N71-24045 *
NASA-CASE-XGS-04554 ..... c 15 N69-39786 * #
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NASA-CASE-XGS-04766 ..... c 08 N71-18602 *
NASA-CASE-XGS-04767 ..... c 08 N71-12494 *
NASA-CASE-XGS-04768 ..... c 08 N71-19437 *
NASA-CASE-XGS-04799 ..... c 18 N71-24183 *
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NASA-CASE-XGS-05003 ..... c 09 N69-24318 * #
NASA-CASE-XGS-05180 ..... c 18 N71-25881 *
NASA-CASE-XGS-05211 ..... c 07 N69-39980 * #
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NASA-CASE-XGS-05432 ..... c 03 N71-19438 *
NASA-CASE-XGS-05434 ..... c 03 N71-20491 *
NASA-CASE-XGS-05441 ..... c 10 N71-22962 *
NASA-CASE-XGS-05532 ..... c 06 N71-17705 *
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NASA-CASE-XGS-05715 ..... c 23 N71-16100 *
NASA-CASE-XGS-05718 ..... c 26 N71-16037 *
NASA-CASE-XGS-05918 ..... c 07 N69-39974 * #
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NASA-CASE-XGS-06306 ..... c 17 N71-16044 *
NASA-CASE-XGS-06628 ..... c 24 N71-16213 *
NASA-CASE-XGS-07375-1 ..... c 25 N82-29370 *
NASA-CASE-XGS-07397-1 ..... c 25 N82-29370 *
NASA-CASE-XGS-07514 ..... c 23 N71-16099 *
NASA-CASE-XGS-07752 ..... c 14 N73-30390 *
NASA-CASE-XGS-07801 ..... c 09 N71-12513 *
NASA-CASE-XGS-07805 ..... c 15 N72-33476 *
NASA-CASE-XGS-08259 ..... c 14 N71-23698 *
NASA-CASE-XGS-08266 ..... c 14 N69-27432 * #
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NASA-CASE-XGS-08679 ..... c 10 N71-21473 *
NASA-CASE-XGS-08718 ..... c 15 N71-24600 *
NASA-CASE-XGS-08729 ..... c 28 N71-14044 *
NASA-CASE-XGS-09186 ..... c 33 N78-17295 *
NASA-CASE-XGS-09190 ..... c 31 N71-16102 *
NASA-CASE-XGS-10010 ..... c 03 N72-15986 *
NASA-CASE-XGS-10518 ..... c 16 N71-28554 *
NASA-CASE-XGS-11177 ..... c 09 N71-27001 *

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NASA-CASE-XHQ-01897 ..... c 28 N70-35381 *
NASA-CASE-XHQ-02146 ..... c 18 N75-27040 *
NASA-CASE-XHQ-03673 ..... c 33 N71-29046 *
NASA-CASE-XHQ-03903 ..... c 15 N69-21922 * #
NASA-CASE-XHQ-04106 ..... c 14 N70-40240 *

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NASA-CASE-XKS-02342 ..... c 05 N71-11199 *
NASA-CASE-XKS-02582 ..... c 15 N71-21234 *
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NASA-CASE-XKS-06250 ..... c 14 N71-15600 *
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NASA-CASE-XKS-07953 ..... c 15 N71-26134 *
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NASA-CASE-XLE-02578 ..... c 25 N71-20747 *
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NASA-CASE-XLE-02798 ..... c 26 N71-23654 *
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NASA-CASE-XLE-02824 ..... c 03 N69-39890 * #
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NASA-CASE-XLE-02991 ..... c 17 N71-16025 *
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NASA-CASE-XLE-02999 ..... c 15 N71-16052 *
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NASA-CASE-XLE-03494 ..... c 27 N71-21819 *
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NASA-CASE-XLE-03925 ..... c 18 N71-22894 *
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NASA-CASE-XLE-03940 ..... c 18 N71-26153 *
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NASA-CASE-XLE-04250 ..... c 09 N71-20446 *
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NASA-CASE-XLE-04535 ..... c 03 N71-23354 *
NASA-CASE-XLE-04599 ..... c 22 N72-20597 *
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NASA-CASE-XLE-04857 ..... c 28 N71-23968 *
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NASA-CASE-XLE-10326-4 ..... c 37 N74-15125 *
NASA-CASE-XLE-10337 ..... c 15 N71-24046 *
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NASA-CASE-XLE-10453-2 ..... c 28 N73-27699 *
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NASA-CASE-XLE-2529-3 ..... c 33 N74-20859 *

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NASA-CASE-XMF-00968 ..... c 28 N71-15660 *
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NASA-CASE-XMF-01371 ..... c 15 N70-41829 *
NASA-CASE-XMF-01402 ..... c 18 N71-21651 *
NASA-CASE-XMF-01452 ..... c 15 N70-41371 *
NASA-CASE-XMF-01483 ..... c 14 N69-27431 * #
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NASA-CASE-XMF-03793 ..... c 15 N71-24833 *
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US-PATENT-APPL-SN-027557 ..... c 27 N81-19296 *
US-PATENT-APPL-SN-027558 ..... c 36 N81-24422 *
US-PATENT-APPL-SN-027559 ..... c 44 N81-17518 *
US-PATENT-APPL-SN-027981 ..... c 76 N87-25868 * #
US-PATENT-APPL-SN-028300 ..... c 27 N81-17259 *
US-PATENT-APPL-SN-028301 ..... c 27 N81-17262 *
US-PATENT-APPL-SN-028301 ..... c 27 N81-24256 *
US-PATENT-APPL-SN-028301 ..... c 27 N82-24338 *
US-PATENT-APPL-SN-028831 ..... c 27 N89-14337 *
US-PATENT-APPL-SN-028832 ..... c 05 N89-11738 *
US-PATENT-APPL-SN-030831 ..... c 25 N82-23282 *
US-PATENT-APPL-SN-032305 ..... c 15 N82-24272 *
US-PATENT-APPL-SN-032307 ..... c 44 N81-24519 *
US-PATENT-APPL-SN-032679 ..... c 34 N88-23958 *
US-PATENT-APPL-SN-032685 ..... c 35 N87-25555 * #
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US-PATENT-APPL-SN-032819 ..... c 33 N89-28713 *
US-PATENT-APPL-SN-034104 ..... c 08 N81-19130 *
US-PATENT-APPL-SN-034531 ..... c 52 N81-28740 *
US-PATENT-APPL-SN-035401 ..... c 31 N87-25495 * #
US-PATENT-APPL-SN-035401 ..... c 54 N91-14723 *
US-PATENT-APPL-SN-035401 ..... c 54 N91-14724 *
US-PATENT-APPL-SN-035401 ..... c 54 N91-26747 *
US-PATENT-APPL-SN-035430 ..... c 27 N87-25474 * #
US-PATENT-APPL-SN-037066 ..... c 25 N81-14016 *
US-PATENT-APPL-SN-037072 ..... c 31 N81-33319 *
US-PATENT-APPL-SN-037194 ..... c 37 N84-28081 *
US-PATENT-APPL-SN-037560 ..... c 74 N81-29963 *
US-PATENT-APPL-SN-038550 ..... c 33 N83-18996 *
US-PATENT-APPL-SN-038560 ..... c 27 N89-29538 *
US-PATENT-APPL-SN-038980 ..... c 07 N81-14999 *
US-PATENT-APPL-SN-039031 ..... c 32 N80-28578 *
US-PATENT-APPL-SN-041141 ..... c 36 N82-13415 *
US-PATENT-APPL-SN-041142 ..... c 32 N81-15179 *
US-PATENT-APPL-SN-041143 ..... c 60 N83-25378 *
US-PATENT-APPL-SN-041145 ..... c 25 N82-12166 *
US-PATENT-APPL-SN-041164 ..... c 33 N81-19392 *
US-PATENT-APPL-SN-041389 ..... c 35 N91-21494 *
US-PATENT-APPL-SN-043911 ..... c 05 N82-26277 *
US-PATENT-APPL-SN-043912 ..... c 43 N81-17499 *
US-PATENT-APPL-SN-043913 ..... c 54 N81-27806 *
US-PATENT-APPL-SN-043941 ..... c 44 N81-19558 *
US-PATENT-APPL-SN-043942 ..... c 06 N82-16075 *
US-PATENT-APPL-SN-043943 ..... c 33 N82-24419 *
US-PATENT-APPL-SN-043944 ..... c 24 N82-24296 *
US-PATENT-APPL-SN-043945 ..... c 47 N82-24779 *
US-PATENT-APPL-SN-044180 ..... c 35 N87-25558 * #
US-PATENT-APPL-SN-044181 ..... c 37 N88-23980 *
US-PATENT-APPL-SN-044183 ..... c 27 N89-29539 *
US-PATENT-APPL-SN-044431 ..... c 33 N81-27395 *
US-PATENT-APPL-SN-044432 ..... c 52 N81-20703 *
US-PATENT-APPL-SN-045743 ..... c 35 N88-24927 *
US-PATENT-APPL-SN-045984 ..... c 36 N88-24958 *
US-PATENT-APPL-SN-046341 ..... c 20 N89-25279 *
US-PATENT-APPL-SN-046739 ..... c 54 N81-24724 *
US-PATENT-APPL-SN-051269 ..... c 33 N81-24338 *
US-PATENT-APPL-SN-051270 ..... c 32 N80-32604 *
US-PATENT-APPL-SN-051271 ..... c 33 N81-26359 *
US-PATENT-APPL-SN-051274 ..... c 34 N81-26402 *
US-PATENT-APPL-SN-051275 ..... c 44 N82-24640 *
US-PATENT-APPL-SN-051276 ..... c 33 N81-33404 *
US-PATENT-APPL-SN-052940 ..... c 37 N89-13786 *
US-PATENT-APPL-SN-052941 ..... c 35 N87-25561 * #
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US-PATENT-APPL-SN-053569 ..... c 35 N81-19426 *
US-PATENT-APPL-SN-053571 ..... c 31 N81-19343 *
US-PATENT-APPL-SN-053572 ..... c 32 N82-23376 *
US-PATENT-APPL-SN-053652 ..... c 33 N82-18494 *
US-PATENT-APPL-SN-054501 ..... c 23 N82-16174 *
US-PATENT-APPL-SN-054980 ..... c 35 N88-29149 *
US-PATENT-APPL-SN-054982 ..... c 23 N90-23475 *
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US-PATENT-APPL-SN-054985 ..... c 23 N90-20133 *
US-PATENT-APPL-SN-056930 ..... c 37 N88-23979 *
US-PATENT-APPL-SN-057465 ..... c 37 N81-17433 *
US-PATENT-APPL-SN-057466 ..... c 71 N81-15767 *
US-PATENT-APPL-SN-057526 ..... c 52 N81-25662 *
US-PATENT-APPL-SN-060182 ..... c 27 N89-12741 *
US-PATENT-APPL-SN-060196 ..... c 32 N89-11961 *
US-PATENT-APPL-SN-060200 ..... c 09 N88-28939 *
US-PATENT-APPL-SN-060201 ..... c 62 N87-25803 * #
US-PATENT-APPL-SN-060435 ..... c 44 N81-24520 *
US-PATENT-APPL-SN-060449 ..... c 07 N82-32366 *
US-PATENT-APPL-SN-061327 ..... c 32 N83-13323 *
US-PATENT-APPL-SN-061555 ..... c 44 N81-29524 *
US-PATENT-APPL-SN-061556 ..... c 35 N81-19427 *
US-PATENT-APPL-SN-061822 ..... c 74 N83-19597 *
US-PATENT-APPL-SN-065676 ..... c 35 N80-18364 * #
US-PATENT-APPL-SN-065676 ..... c 44 N81-12542 *
US-PATENT-APPL-SN-066450 ..... c 29 N87-25489 * #
US-PATENT-APPL-SN-067595 ..... c 08 N82-24205 *
US-PATENT-APPL-SN-067596 ..... c 51 N81-28698 *
US-PATENT-APPL-SN-067844 ..... c 34 N89-14392 *
US-PATENT-APPL-SN-067846 ..... c 31 N90-21216 *
US-PATENT-APPL-SN-069485 ..... c 33 N82-24420 *
US-PATENT-APPL-SN-070366 ..... c 35 N82-11431 *
US-PATENT-APPL-SN-070771 ..... c 27 N81-17260 *
US-PATENT-APPL-SN-070774 ..... c 33 N82-26571 *
US-PATENT-APPL-SN-071686 ..... c 27 N90-16950 *
US-PATENT-APPL-SN-072857 ..... c 24 N82-32417 *
US-PATENT-APPL-SN-073477 ..... c 36 N82-32712 *
US-PATENT-APPL-SN-073539 ..... c 18 N87-29586 * #
US-PATENT-APPL-SN-073541 ..... c 33 N90-19492 *
US-PATENT-APPL-SN-073579 ..... c 33 N82-24415 *
US-PATENT-APPL-SN-074792 ..... c 35 N88-30108 *
US-PATENT-APPL-SN-076643 ..... c 32 N81-29308 *
US-PATENT-APPL-SN-076955 ..... c 16 N90-22584 *
US-PATENT-APPL-SN-076956 ..... c 35 N88-29151 *
US-PATENT-APPL-SN-078521 ..... c 32 N81-14186 *
US-PATENT-APPL-SN-078611 ..... c 04 N81-21047 *
US-PATENT-APPL-SN-078612 ..... c 46 N82-12685 *
US-PATENT-APPL-SN-079316 ..... c 26 N87-29650 * #
US-PATENT-APPL-SN-079317 ..... c 37 N88-30131 *
US-PATENT-APPL-SN-079320 ..... c 27 N87-29672 * #
US-PATENT-APPL-SN-079913 ..... c 05 N82-28279 *
US-PATENT-APPL-SN-082766 ..... c 09 N90-20096 *
US-PATENT-APPL-SN-082766 ..... c 04 N91-31120 *
US-PATENT-APPL-SN-084062 ..... c 35 N90-20351 *
US-PATENT-APPL-SN-084770 ..... c 32 N88-29076 *
US-PATENT-APPL-SN-085833 ..... c 62 N91-14772 *
US-PATENT-APPL-SN-087281 ..... c 52 N90-20616 *
US-PATENT-APPL-SN-087282 ..... c 31 N89-12785 *
US-PATENT-APPL-SN-087283 ..... c 71 N89-13236 *
US-PATENT-APPL-SN-087358 ..... c 51 N91-14703 *
US-PATENT-APPL-SN-087359 ..... c 35 N89-14422 *
US-PATENT-APPL-SN-087375 ..... c 27 N90-23545 *
US-PATENT-APPL-SN-087375 ..... c 23 N91-14419 *
US-PATENT-APPL-SN-087376 ..... c 27 N91-14489 *
US-PATENT-APPL-SN-088663 ..... c 28 N82-18401 *
US-PATENT-APPL-SN-089779 ..... c 26 N81-25188 *
US-PATENT-APPL-SN-090584 ..... c 74 N81-19896 *
US-PATENT-APPL-SN-090874 ..... c 25 N90-20180 *
US-PATENT-APPL-SN-0914 ..... c 28 N70-38711 *
US-PATENT-APPL-SN-092141 ..... c 27 N81-29229 *
US-PATENT-APPL-SN-092142 ..... c 27 N82-11206 *
US-PATENT-APPL-SN-092143 ..... c 32 N82-18443 *
US-PATENT-APPL-SN-092145 ..... c 37 N82-12442 *
US-PATENT-APPL-SN-093417 ..... c 37 N90-17154 *
US-PATENT-APPL-SN-093714 ..... c 44 N81-29525 *
US-PATENT-APPL-SN-095217 ..... c 74 N81-19898 *
US-PATENT-APPL-SN-096255 ..... c 37 N80-18400 * #
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US-PATENT-APPL-SN-096257 ..... c 37 N82-24490 *
US-PATENT-APPL-SN-098568 ..... c 33 N82-11357 *
US-PATENT-APPL-SN-098569 ..... c 44 N82-16474 *
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US-PATENT-APPL-SN-100611 ..... c 37 N82-32732 *
US-PATENT-APPL-SN-100637 ..... c 37 N75-18574 *
US-PATENT-APPL-SN-100639 ..... c 14 N72-32452 *

US-PATENT-APPL-SN-100774 ..... c 06 N72-25151 *
US-PATENT-APPL-SN-100774 ..... c 06 N73-32030 *
US-PATENT-APPL-SN-100996 ..... c 08 N73-13187 *
US-PATENT-APPL-SN-101029 ..... c 31 N70-38676 *
US-PATENT-APPL-SN-101214 ..... c 14 N73-26430 *
US-PATENT-APPL-SN-101354 ..... c 10 N73-16205 *
US-PATENT-APPL-SN-10161 ..... c 33 N72-20915 *
US-PATENT-APPL-SN-102001 ..... c 36 N82-16396 *
US-PATENT-APPL-SN-102002 ..... c 18 N81-29152 *
US-PATENT-APPL-SN-102003 ..... c 26 N82-29415 *
US-PATENT-APPL-SN-102003 ..... c 26 N82-30371 *
US-PATENT-APPL-SN-102004 ..... c 37 N81-26447 *
US-PATENT-APPL-SN-102412 ..... c 25 N72-33696 *
US-PATENT-APPL-SN-102593 ..... c 37 N82-16408 *
US-PATENT-APPL-SN-102705 ..... c 35 N88-29150 *
US-PATENT-APPL-SN-103077 ..... c 25 N72-32688 *
US-PATENT-APPL-SN-103078 ..... c 15 N73-12486 *
US-PATENT-APPL-SN-103091 ..... c 37 N74-23070 *
US-PATENT-APPL-SN-103229 ..... c 14 N72-22439 *
US-PATENT-APPL-SN-103230 ..... c 15 N73-14468 *
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US-PATENT-APPL-SN-103551 ..... c 31 N73-14854 *
US-PATENT-APPL-SN-103836 ..... c 37 N81-24443 *
US-PATENT-APPL-SN-104047 ..... c 15 N72-31483 *
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US-PATENT-APPL-SN-104188 ..... c 09 N70-34819 *
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US-PATENT-APPL-SN-105518 ..... c 23 N71-15978 *
US-PATENT-APPL-SN-105841 ..... c 18 N89-28553 *
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US-PATENT-APPL-SN-106106 ..... c 91 N74-13130 *
US-PATENT-APPL-SN-106118 ..... c 32 N80-16261 * #
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US-PATENT-APPL-SN-106465 ..... c 30 N73-12884 *
US-PATENT-APPL-SN-107298 ..... c 32 N73-13921 *
US-PATENT-APPL-SN-107376 ..... c 15 N73-25513 *
US-PATENT-APPL-SN-107379 ..... c 10 N72-33230 *
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US-PATENT-APPL-SN-107870 ..... c 15 N70-36411 *
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US-PATENT-APPL-SN-120797 ..... c 14 N70-36824 *
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US-PATENT-APPL-SN-121328 ..... c 23 N72-11568 * #
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US-PATENT-APPL-SN-136085 ..... c 17 N73-12547 *
US-PATENT-APPL-SN-136086 ..... c 15 N73-19457 *
US-PATENT-APPL-SN-136253 ..... c 27 N74-12814 *
US-PATENT-APPL-SN-136652 ..... c 07 N84-24577 *
US-PATENT-APPL-SN-136660 ..... c 31 N83-34073 *
US-PATENT-APPL-SN-137391 ..... c 36 N75-31426 *
US-PATENT-APPL-SN-137912 ..... c 06 N72-21105 * #
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US-PATENT-APPL-SN-138229 ..... c 15 N72-32487 *
US-PATENT-APPL-SN-138230 ..... c 32 N73-20740 *
US-PATENT-APPL-SN-138944 ..... c 37 N82-26672 *
US-PATENT-APPL-SN-139006 ..... c 09 N70-38604 *
US-PATENT-APPL-SN-139007 ..... c 28 N70-37245 *
US-PATENT-APPL-SN-139012 ..... c 03 N70-38713 *
US-PATENT-APPL-SN-139094 ..... c 05 N73-32011 *
US-PATENT-APPL-SN-139250 ..... c 04 N73-27052 *
US-PATENT-APPL-SN-139528 ..... c 03 N72-25020 *
US-PATENT-APPL-SN-139596 ..... c 33 N77-13315 *
US-PATENT-APPL-SN-140185 ..... c 76 N91-21911 *
US-PATENT-APPL-SN-140185 ..... c 74 N91-31950 *
US-PATENT-APPL-SN-140439 ..... c 33 N75-19518 *
US-PATENT-APPL-SN-140443 ..... c 09 N70-35219 *
US-PATENT-APPL-SN-140509 ..... c 09 N70-35382 *
US-PATENT-APPL-SN-140946 ..... c 18 N73-26572 *
US-PATENT-APPL-SN-140946 ..... c 27 N74-27037 *
US-PATENT-APPL-SN-141220 ..... c 33 N70-37979 *
US-PATENT-APPL-SN-142583 ..... c 37 N79-33469 *
US-PATENT-APPL-SN-142662 ..... c 23 N73-13661 *
US-PATENT-APPL-SN-142719 ..... c 14 N73-14429 *
US-PATENT-APPL-SN-143078 ..... c 08 N72-33172 *
US-PATENT-APPL-SN-143434 ..... c 60 N90-21525 *
US-PATENT-APPL-SN-143436 ..... c 35 N89-14423 *
US-PATENT-APPL-SN-143508 ..... c 33 N74-12913 *
US-PATENT-APPL-SN-144139 ..... c 11 N73-26238 *
US-PATENT-APPL-SN-144803 ..... c 11 N70-34844 *
US-PATENT-APPL-SN-144804 ..... c 14 N70-39898 *
US-PATENT-APPL-SN-14488 ..... c 09 N70-38995 *
US-PATENT-APPL-SN-144958 ..... c 09 N72-20206 * #
US-PATENT-APPL-SN-145007 ..... c 18 N70-36400 *
US-PATENT-APPL-SN-145026 ..... c 06 N72-25152 *
US-PATENT-APPL-SN-145027 ..... c 06 N73-32029 *
US-PATENT-APPL-SN-145107 ..... c 27 N82-16238 *
US-PATENT-APPL-SN-145206 ..... c 32 N82-11336 *
US-PATENT-APPL-SN-145207 ..... c 25 N82-28368 *
US-PATENT-APPL-SN-145208 ..... c 34 N83-34221 *
US-PATENT-APPL-SN-145209 ..... c 27 N82-29453 *
US-PATENT-APPL-SN-145210 ..... c 09 N82-23254 *
US-PATENT-APPL-SN-145271 ..... c 23 N81-29160 *
US-PATENT-APPL-SN-145272 ..... c 33 N82-28545 *
US-PATENT-APPL-SN-145273 ..... c 51 N81-32829 *
US-PATENT-APPL-SN-145282 ..... c 74 N82-24072 *
US-PATENT-APPL-SN-145283 ..... c 27 N81-24256 *
US-PATENT-APPL-SN-145284 ..... c 27 N82-24338 *
US-PATENT-APPL-SN-145719 ..... c 25 N90-20154 *
US-PATENT-APPL-SN-146217 ..... c 14 N71-34389 * #
US-PATENT-APPL-SN-146935 ..... c 14 N73-20475 *
US-PATENT-APPL-SN-146938 ..... c 35 N88-23963 * #
US-PATENT-APPL-SN-146939 ..... c 73 N75-30876 *
US-PATENT-APPL-SN-146939 ..... c 35 N88-23962 * #
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US-PATENT-APPL-SN-147099 ..... c 14 N73-13417 *
US-PATENT-APPL-SN-147103 ..... c 10 N73-20253 *
US-PATENT-APPL-SN-147695 ..... c 32 N84-27952 *
US-PATENT-APPL-SN-147700 ..... c 27 N82-24339 *
US-PATENT-APPL-SN-147922 ..... c 28 N73-19793 *
US-PATENT-APPL-SN-147940 ..... c 14 N72-10375 * #
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US-PATENT-APPL-SN-147997 ..... c 15 N72-33477 *
US-PATENT-APPL-SN-148001 ..... c 14 N70-34298 *
US-PATENT-APPL-SN-148756 ..... c 15 N73-13466 *
US-PATENT-APPL-SN-149283 ..... c 35 N74-17153 *
US-PATENT-APPL-SN-149526 ..... c 52 N82-33996 *
US-PATENT-APPL-SN-149821 ..... c 31 N88-23917 * #
US-PATENT-APPL-SN-149822 ..... c 35 N89-26202 *
US-PATENT-APPL-SN-149830 ..... c 37 N88-23974 * #
US-PATENT-APPL-SN-149983 ..... c 31 N72-21893 * #
US-PATENT-APPL-SN-150040 ..... c 36 N82-29589 *
US-PATENT-APPL-SN-150115 ..... c 44 N82-16475 *
US-PATENT-APPL-SN-150169 ..... c 25 N91-31258 *
US-PATENT-APPL-SN-15019 ..... c 15 N72-17455 *
US-PATENT-APPL-SN-15020 ..... c 14 N70-34697 * #
US-PATENT-APPL-SN-150215 ..... c 33 N73-25952 *
US-PATENT-APPL-SN-15022 ..... c 15 N72-21465 *
US-PATENT-APPL-SN-15023 ..... c 15 N70-34699 * #
US-PATENT-APPL-SN-15024 ..... c 09 N72-21245 *
US-PATENT-APPL-SN-15025 ..... c 03 N72-20033 *
US-PATENT-APPL-SN-150690 ..... c 35 N79-33450 *
US-PATENT-APPL-SN-151112 ..... c 15 N70-34814 *
US-PATENT-APPL-SN-151114 ..... c 31 N70-34176 *
US-PATENT-APPL-SN-151411 ..... c 07 N73-26118 *
US-PATENT-APPL-SN-151412 ..... c 09 N73-32112 *
US-PATENT-APPL-SN-151413 ..... c 14 N73-12447 *
US-PATENT-APPL-SN-151598 ..... c 03 N70-34134 *
US-PATENT-APPL-SN-15222 ..... c 18 N72-25539 *
US-PATENT-APPL-SN-152328 ..... c 02 N74-20646 *
US-PATENT-APPL-SN-152849 ..... c 15 N73-30457 *
US-PATENT-APPL-SN-153240 ..... c 33 N86-19515 *
US-PATENT-APPL-SN-153245 ..... c 74 N83-29032 *
US-PATENT-APPL-SN-153246 ..... c 52 N82-29863 *
US-PATENT-APPL-SN-153266 ..... c 02 N70-38011 *
US-PATENT-APPL-SN-153542 ..... c 28 N73-32606 *
US-PATENT-APPL-SN-153543 ..... c 08 N73-26176 *
US-PATENT-APPL-SN-153624 ..... c 37 N75-27376 *
US-PATENT-APPL-SN-154094 ..... c 33 N72-27959 *
US-PATENT-APPL-SN-154663 ..... c 02 N81-26073 * #

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US-PATENT-APPL-SN-154711 ..... c 33 N88-24863 * #
US-PATENT-APPL-SN-154712 ..... c 37 N88-24969 * #
US-PATENT-APPL-SN-154713 ..... c 72 N89-29169 *
US-PATENT-APPL-SN-154716 ..... c 74 N88-25302 * #
US-PATENT-APPL-SN-154718 ..... c 74 N88-25301 * #
US-PATENT-APPL-SN-154725 ..... c 37 N82-24493 *
US-PATENT-APPL-SN-154726 ..... c 25 N81-25159 *
US-PATENT-APPL-SN-154930 ..... c 44 N76-14600 *
US-PATENT-APPL-SN-154933 ..... c 14 N73-25463 *
US-PATENT-APPL-SN-154935 ..... c 11 N72-27262 *
US-PATENT-APPL-SN-155565 ..... c 08 N73-25206 *
US-PATENT-APPL-SN-155584 ..... c 09 N70-40123 *
US-PATENT-APPL-SN-155595 ..... c 26 N73-28710 *
US-PATENT-APPL-SN-155596 ..... c 15 N73-32361 *
US-PATENT-APPL-SN-155598 ..... c 15 N73-28516 *
US-PATENT-APPL-SN-156059 ..... c 37 N90-19602 *
US-PATENT-APPL-SN-156393 ..... c 35 N88-24941 * #
US-PATENT-APPL-SN-156518 ..... c 74 N89-25689 *
US-PATENT-APPL-SN-156724 ..... c 21 N73-13643 *
US-PATENT-APPL-SN-156725 ..... c 14 N73-27377 *
US-PATENT-APPL-SN-156778 ..... c 17 N72-28535 *
US-PATENT-APPL-SN-156790 ..... c 25 N82-29371 *
US-PATENT-APPL-SN-157150 ..... c 37 N84-33808 *
US-PATENT-APPL-SN-158530 ..... c 27 N83-19900 *
US-PATENT-APPL-SN-158914 ..... c 11 N70-36913 *
US-PATENT-APPL-SN-158916 ..... c 05 N70-41819 *
US-PATENT-APPL-SN-159071 ..... c 25 N90-23497 *
US-PATENT-APPL-SN-159071 ..... c 23 N91-17141 *
US-PATENT-APPL-SN-159072 ..... c 18 N89-25266 *
US-PATENT-APPL-SN-159613 ..... c 35 N88-24943 * #
US-PATENT-APPL-SN-159613 ..... c 36 N90-17132 *
US-PATENT-APPL-SN-159804 ..... c 11 N70-38196 *
US-PATENT-APPL-SN-159857 ..... c 05 N73-26072 *
US-PATENT-APPL-SN-159966 ..... c 31 N73-26876 *
US-PATENT-APPL-SN-160093 ..... c 04 N78-17031 *
US-PATENT-APPL-SN-160859 ..... c 32 N73-26910 *
US-PATENT-APPL-SN-160860 ..... c 18 N73-32437 *
US-PATENT-APPL-SN-161028 ..... c 14 N73-19420 *
US-PATENT-APPL-SN-161254 ..... c 27 N82-28441 *
US-PATENT-APPL-SN-161255 ..... c 28 N81-24280 *
US-PATENT-APPL-SN-161256 ..... c 44 N82-32841 *
US-PATENT-APPL-SN-161257 ..... c 37 N85-29282 *
US-PATENT-APPL-SN-161681 ..... c 76 N90-24169 *
US-PATENT-APPL-SN-161682 ..... c 37 N91-14613 *
US-PATENT-APPL-SN-162100 ..... c 33 N74-14939 *
US-PATENT-APPL-SN-162101 ..... c 14 N73-24473 *
US-PATENT-APPL-SN-162230 ..... c 26 N72-28761 *
US-PATENT-APPL-SN-162380 ..... c 36 N74-21091 *
US-PATENT-APPL-SN-163122 ..... c 07 N83-31603 *
US-PATENT-APPL-SN-163151 ..... c 74 N75-25706 *
US-PATENT-APPL-SN-163152 ..... c 17 N73-27446 *
US-PATENT-APPL-SN-163837 ..... c 47 N83-32232 *
US-PATENT-APPL-SN-163838 ..... c 23 N82-28353 *
US-PATENT-APPL-SN-163840 ..... c 37 N81-33482 *
US-PATENT-APPL-SN-163928 ..... c 27 N90-16949 *
US-PATENT-APPL-SN-164-584 ... c 24 N83-33950 *
US-PATENT-APPL-SN-164428 ..... c 09 N70-35440 *
US-PATENT-APPL-SN-164617 ..... c 06 N81-17057 *
US-PATENT-APPL-SN-165910 ..... c 32 N83-31918 *
US-PATENT-APPL-SN-165943 ..... c 37 N89-28831 *
US-PATENT-APPL-SN-165945 ..... c 35 N90-22025 *
US-PATENT-APPL-SN-165946 ..... c 20 N90-19298 *
US-PATENT-APPL-SN-165956 ..... c 18 N90-19278 *
US-PATENT-APPL-SN-166487 ..... c 11 N73-32152 *
US-PATENT-APPL-SN-166541 ..... c 14 N73-13415 *
US-PATENT-APPL-SN-166969 ..... c 15 N70-34249 *
US-PATENT-APPL-SN-166970 ..... c 15 N70-36409 *
US-PATENT-APPL-SN-167719 ..... c 16 N73-33397 *
US-PATENT-APPL-SN-168065 ..... c 35 N91-14590 *
US-PATENT-APPL-SN-16808 ..... c 14 N72-22445 *
US-PATENT-APPL-SN-168560 ..... c 02 N70-34856 *
US-PATENT-APPL-SN-168650 ..... c 14 N73-13416 *
US-PATENT-APPL-SN-168943 ..... c 54 N82-26987 *
US-PATENT-APPL-SN-168944 ..... c 37 N82-32731 *
US-PATENT-APPL-SN-169671 ..... c 10 N73-30205 *
US-PATENT-APPL-SN-169962 ..... c 34 N74-30608 *
US-PATENT-APPL-SN-169977 ..... c 14 N70-34794 *
US-PATENT-APPL-SN-170440 ..... c 15 N73-13462 *
US-PATENT-APPL-SN-170544 ..... c 36 N77-19416 *
US-PATENT-APPL-SN-170680 ..... c 34 N74-15652 *
US-PATENT-APPL-SN-170681 ..... c 10 N73-25240 *
US-PATENT-APPL-SN-17101 ..... c 28 N72-18766 *
US-PATENT-APPL-SN-171928 ..... c 33 N82-26570 *
US-PATENT-APPL-SN-171933 ..... c 37 N82-12441 *
US-PATENT-APPL-SN-171934 ..... c 35 N82-26628 *
US-PATENT-APPL-SN-172098 ..... c 33 N80-29583 * #
US-PATENT-APPL-SN-172099 ..... c 32 N82-27558 *
US-PATENT-APPL-SN-172100 ..... c 27 N82-33520 *
US-PATENT-APPL-SN-172100 ..... c 31 N90-21215 *
US-PATENT-APPL-SN-172101 ..... c 76 N90-23242 *
US-PATENT-APPL-SN-172102 ..... c 26 N89-28621 *
US-PATENT-APPL-SN-172105 ..... c 33 N91-31528 *
US-PATENT-APPL-SN-172105 ..... c 63 N91-31885 *
US-PATENT-APPL-SN-172459 ..... c 06 N73-16106 *
US-PATENT-APPL-SN-172727 ..... c 33 N81-26360 *
US-PATENT-APPL-SN-172807 ..... c 07 N73-28012 *
US-PATENT-APPL-SN-173081 ..... c 28 N70-36806 *
US-PATENT-APPL-SN-173178 ..... c 33 N77-21315 *
US-PATENT-APPL-SN-173185 ..... c 23 N73-13660 *
US-PATENT-APPL-SN-173190 ..... c 05 N73-32015 *
US-PATENT-APPL-SN-173518 ..... c 60 N82-29013 *
US-PATENT-APPL-SN-173519 ..... c 44 N82-26776 *
US-PATENT-APPL-SN-173520 ..... c 31 N83-27058 *
US-PATENT-APPL-SN-173524 ..... c 35 N82-32659 *
US-PATENT-APPL-SN-173981 ..... c 14 N70-35666 *
US-PATENT-APPL-SN-174684 ..... c 33 N75-31331 *
US-PATENT-APPL-SN-175267 ..... c 14 N73-28486 *
US-PATENT-APPL-SN-175452 ..... c 27 N81-27272 *
US-PATENT-APPL-SN-175452 ..... c 27 N85-21347 *
US-PATENT-APPL-SN-175453 ..... c 85 N82-33288 *
US-PATENT-APPL-SN-175497 ..... c 08 N73-28045 *
US-PATENT-APPL-SN-175852 ..... c 25 N73-25760 *
US-PATENT-APPL-SN-175881 ..... c 09 N73-15235 *
US-PATENT-APPL-SN-175981 ..... c 16 N73-30476 *
US-PATENT-APPL-SN-175983 ..... c 31 N73-32750 *
US-PATENT-APPL-SN-176545 ..... c 31 N88-24817 * #
US-PATENT-APPL-SN-176547 ..... c 76 N90-24168 *
US-PATENT-APPL-SN-176587 ..... c 20 N88-24684 * #
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US-PATENT-APPL-SN-177684 ..... c 28 N70-34860 *
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US-PATENT-APPL-SN-178192 ..... c 25 N83-33977 *
US-PATENT-APPL-SN-178193 ..... c 52 N82-29862 *
US-PATENT-APPL-SN-178195 ..... c 35 N82-24470 *
US-PATENT-APPL-SN-178213 ..... c 25 N70-33267 *
US-PATENT-APPL-SN-178215 ..... c 25 N70-34661 *
US-PATENT-APPL-SN-178721 ..... c 03 N70-35408 *
US-PATENT-APPL-SN-178771 ..... c 23 N75-14834 *
US-PATENT-APPL-SN-180230 ..... c 33 N83-18996 *
US-PATENT-APPL-SN-180370 ..... c 28 N70-33375 *
US-PATENT-APPL-SN-180374 ..... c 28 N70-38181 *
US-PATENT-APPL-SN-180377 ..... c 15 N70-36908 *
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US-PATENT-APPL-SN-180380 ..... c 09 N70-38998 *
US-PATENT-APPL-SN-180381 ..... c 21 N70-35089 *
US-PATENT-APPL-SN-180382 ..... c 28 N70-38645 *
US-PATENT-APPL-SN-180384 ..... c 11 N70-38675 *
US-PATENT-APPL-SN-180391 ..... c 28 N70-38249 *
US-PATENT-APPL-SN-180392 ..... c 09 N71-13530 *
US-PATENT-APPL-SN-180394 ..... c 15 N70-38603 *
US-PATENT-APPL-SN-180395 ..... c 15 N70-36947 *
US-PATENT-APPL-SN-180396 ..... c 11 N70-38202 *
US-PATENT-APPL-SN-180473 ..... c 28 N73-27699 *
US-PATENT-APPL-SN-180683 ..... c 10 N73-25241 *
US-PATENT-APPL-SN-180963 ..... c 14 N73-27378 *
US-PATENT-APPL-SN-181023 ..... c 15 N73-26472 *
US-PATENT-APPL-SN-181024 ..... c 07 N73-26117 *
US-PATENT-APPL-SN-181828 ..... c 02 N70-34858 *
US-PATENT-APPL-SN-181829 ..... c 31 N70-38010 *
US-PATENT-APPL-SN-182000 ..... c 16 N88-24660 * #
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US-PATENT-APPL-SN-182696 ..... c 21 N70-36938 *
US-PATENT-APPL-SN-182698 ..... c 15 N70-38620 *
US-PATENT-APPL-SN-182699 ..... c 28 N70-38504 *
US-PATENT-APPL-SN-182879 ..... c 37 N82-32730 *
US-PATENT-APPL-SN-182880 ..... c 37 N83-19091 *
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US-PATENT-APPL-SN-182977 ..... c 39 N74-13131 *
US-PATENT-APPL-SN-182978 ..... c 16 N73-13489 *
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US-PATENT-APPL-SN-183475 ..... c 52 N91-14709 *
US-PATENT-APPL-SN-183707 ..... c 23 N85-33187 *
US-PATENT-APPL-SN-183977 ..... c 28 N70-38505 *
US-PATENT-APPL-SN-183978 ..... c 15 N70-38020 *
US-PATENT-APPL-SN-184090 ..... c 14 N73-32327 *
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US-PATENT-APPL-SN-184234 ..... c 76 N90-19884 *
US-PATENT-APPL-SN-184235 ..... c 32 N90-17005 *
US-PATENT-APPL-SN-184236 ..... c 37 N90-17153 *
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US-PATENT-APPL-SN-185869 ..... c 71 N82-16800 *
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US-PATENT-APPL-SN-186881 ..... c 74 N82-30071 *
US-PATENT-APPL-SN-187106 ..... c 74 N83-17305 *
US-PATENT-APPL-SN-187143 ..... c 36 N74-13205 *
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US-PATENT-APPL-SN-193672 ..... c 54 N74-14845 *
US-PATENT-APPL-SN-193814 ..... c 14 N73-30393 *
US-PATENT-APPL-SN-193947 ..... c 14 N73-13420 *
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US-PATENT-APPL-SN-195061 ..... c 05 N73-25125 *
US-PATENT-APPL-SN-195222 ..... c 31 N91-15423 *
US-PATENT-APPL-SN-195223 ..... c 35 N83-21311 *
US-PATENT-APPL-SN-195225 ..... c 32 N88-26541 * #
US-PATENT-APPL-SN-195226 ..... c 31 N83-31895 *
US-PATENT-APPL-SN-195226 ..... c 17 N90-21061 *
US-PATENT-APPL-SN-195227 ..... c 74 N83-32577 *
US-PATENT-APPL-SN-195228 ..... c 74 N83-10900 *
US-PATENT-APPL-SN-195346 ..... c 15 N70-36492 *
US-PATENT-APPL-SN-195347 ..... c 31 N70-34135 *
US-PATENT-APPL-SN-195547 ..... c 32 N83-18975 *
US-PATENT-APPL-SN-195563 ..... c 09 N91-14357 *
US-PATENT-APPL-SN-19572 ..... c 35 N77-27368 *
US-PATENT-APPL-SN-19585 ..... c 15 N72-25455 *
US-PATENT-APPL-SN-196399 ..... c 07 N73-25161 *
US-PATENT-APPL-SN-196877 ..... c 35 N84-17555 *
US-PATENT-APPL-SN-196898 ..... c 38 N74-15130 *
US-PATENT-APPL-SN-196931 ..... c 35 N74-17885 *
US-PATENT-APPL-SN-196970 ..... c 15 N73-33383 *
US-PATENT-APPL-SN-197183 ..... c 02 N76-22154 *
US-PATENT-APPL-SN-197191 ..... c 32 N89-28672 *
US-PATENT-APPL-SN-197548 ..... c 09 N70-34502 *
US-PATENT-APPL-SN-197551 ..... c 31 N70-34296 *
US-PATENT-APPL-SN-197553 ..... c 08 N70-34778 *
US-PATENT-APPL-SN-197554 ..... c 14 N70-35368 *
US-PATENT-APPL-SN-197689 ..... c 31 N74-14133 *
US-PATENT-APPL-SN-197689 ..... c 31 N75-13111 *
US-PATENT-APPL-SN-197870 ..... c 14 N73-32322 *
US-PATENT-APPL-SN-198093 ..... c 39 N83-20280 *
US-PATENT-APPL-SN-198285 ..... c 09 N73-13208 *
US-PATENT-APPL-SN-198289 ..... c 14 N73-32326 *
US-PATENT-APPL-SN-198355 ..... c 05 N72-15098 * #
US-PATENT-APPL-SN-198362 ..... c 14 N73-28489 *
US-PATENT-APPL-SN-198379 ..... c 15 N73-32359 *
US-PATENT-APPL-SN-198472 ..... c 27 N74-12812 *
US-PATENT-APPL-SN-198763 ..... c 31 N74-18124 *
US-PATENT-APPL-SN-198763 ..... c 31 N74-32920 *
US-PATENT-APPL-SN-198885 ..... c 05 N73-27062 *
US-PATENT-APPL-SN-199199 ..... c 25 N71-29184 *
US-PATENT-APPL-SN-199202 ..... c 14 N70-40239 *
US-PATENT-APPL-SN-19971 ..... c 09 N70-33312 *
US-PATENT-APPL-SN-199765 ..... c 33 N81-12330 * #
US-PATENT-APPL-SN-199766 ..... c 36 N84-28065 *
US-PATENT-APPL-SN-199767 ..... c 33 N83-16626 *
US-PATENT-APPL-SN-199768 ..... c 27 N84-22746 *
US-PATENT-APPL-SN-199768 ..... c 27 N85-20123 *
US-PATENT-APPL-SN-199769 ..... c 26 N82-31505 *
US-PATENT-APPL-SN-199957 ..... c 10 N73-26229 *
US-PATENT-APPL-SN-200040 ..... c 52 N74-10975 *
US-PATENT-APPL-SN-200085 ..... c 26 N73-26751 *
US-PATENT-APPL-SN-200634 ..... c 34 N83-27144 *
US-PATENT-APPL-SN-200682 ..... c 07 N73-14130 *
US-PATENT-APPL-SN-200717 ..... c 09 N73-19234 *
US-PATENT-APPL-SN-200762 ..... c 03 N73-20040 *
US-PATENT-APPL-SN-200770 ..... c 09 N79-21084 *
US-PATENT-APPL-SN-200874 ..... c 17 N88-28946 * #
US-PATENT-APPL-SN-201700 ..... c 33 N74-17930 *
US-PATENT-APPL-SN-201782 ..... c 15 N73-19458 *
US-PATENT-APPL-SN-201904 ..... c 15 N73-30458 *
US-PATENT-APPL-SN-201904 ..... c 37 N74-15128 *
US-PATENT-APPL-SN-201904 ..... c 37 N74-21064 *
US-PATENT-APPL-SN-202024 ..... c 14 N70-34156 *
US-PATENT-APPL-SN-202029 ..... c 11 N70-34786 *
US-PATENT-APPL-SN-202030 ..... c 31 N71-10747 *
US-PATENT-APPL-SN-202228 ..... c 34 N82-11399 * #

US-PATENT-APPL-SN-202228 ..... c 34 N85-29179 *
US-PATENT-APPL-SN-202750 ..... c 19 N74-21015 *
US-PATENT-APPL-SN-202769 ..... c 05 N73-27941 *
US-PATENT-APPL-SN-203177 ..... c 39 N88-25011 * #
US-PATENT-APPL-SN-203178 ..... c 34 N90-19534 *
US-PATENT-APPL-SN-203178 ..... c 34 N91-31596 *
US-PATENT-APPL-SN-203271 ..... c 51 N74-15778 *
US-PATENT-APPL-SN-203374 ..... c 32 N91-25316 *
US-PATENT-APPL-SN-203405 ..... c 02 N73-26006 *
US-PATENT-APPL-SN-203409 ..... c 28 N70-38197 *
US-PATENT-APPL-SN-203411 ..... c 33 N70-34812 *
US-PATENT-APPL-SN-20370 ..... c 33 N79-33393 *
US-PATENT-APPL-SN-204015 ..... c 09 N70-38201 *
US-PATENT-APPL-SN-205047 ..... c 15 N73-32360 *
US-PATENT-APPL-SN-205470 ..... c 08 N71-18752 *
US-PATENT-APPL-SN-205675 ..... c 14 N73-30386 *
US-PATENT-APPL-SN-205771 ..... c 31 N89-29578 *
US-PATENT-APPL-SN-205898 ..... c 09 N90-23415 *
US-PATENT-APPL-SN-205899 ..... c 35 N90-22769 *
US-PATENT-APPL-SN-205900 ..... c 35 N90-22770 *
US-PATENT-APPL-SN-206266 ..... c 76 N74-20329 *
US-PATENT-APPL-SN-206266 ..... c 76 N75-25730 *
US-PATENT-APPL-SN-206279 ..... c 02 N73-26005 *
US-PATENT-APPL-SN-206279 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-206506 ..... c 33 N82-24422 *
US-PATENT-APPL-SN-206698 ..... c 15 N73-30459 *
US-PATENT-APPL-SN-207135 ..... c 35 N83-27184 *
US-PATENT-APPL-SN-207211 ..... c 07 N73-30113 *
US-PATENT-APPL-SN-209478 ..... c 07 N70-38200 *
US-PATENT-APPL-SN-209479 ..... c 15 N70-34850 *
US-PATENT-APPL-SN-209535 ..... c 28 N73-24783 *
US-PATENT-APPL-SN-20960 ..... c 15 N72-17453 *
US-PATENT-APPL-SN-209618 ..... c 33 N75-19520 *
US-PATENT-APPL-SN-209618 ..... c 33 N75-25041 *
US-PATENT-APPL-SN-209801 ..... c 08 N70-40125 *
US-PATENT-APPL-SN-210277 ..... c 39 N88-30160 * #
US-PATENT-APPL-SN-210405 ..... c 74 N84-11921 *
US-PATENT-APPL-SN-210480 ..... c 05 N90-20078 *
US-PATENT-APPL-SN-210486 ..... c 26 N90-21170 *
US-PATENT-APPL-SN-210487 ..... c 35 N90-17117 *
US-PATENT-APPL-SN-210498 ..... c 35 N84-12444 *
US-PATENT-APPL-SN-210506 ..... c 39 N83-32081 *
US-PATENT-APPL-SN-210632 ..... c 26 N83-10170 *
US-PATENT-APPL-SN-211332 ..... c 02 N74-10034 *
US-PATENT-APPL-SN-211411 ..... c 11 N73-20267 *
US-PATENT-APPL-SN-211464 ..... c 28 N70-36910 *
US-PATENT-APPL-SN-212028 ..... c 09 N73-14214 *
US-PATENT-APPL-SN-212165 ..... c 14 N73-25460 *
US-PATENT-APPL-SN-212173 ..... c 02 N71-13421 *
US-PATENT-APPL-SN-212174 ..... c 15 N70-34859 *
US-PATENT-APPL-SN-212496 ..... c 03 N70-36803 *
US-PATENT-APPL-SN-212497 ..... c 11 N71-28779 *
US-PATENT-APPL-SN-21263 ..... c 01 N71-12217 * #
US-PATENT-APPL-SN-212900 ..... c 14 N73-25462 *
US-PATENT-APPL-SN-212921 ..... c 07 N73-20176 *
US-PATENT-APPL-SN-212949 ..... c 35 N83-35338 *
US-PATENT-APPL-SN-212977 ..... c 15 N73-30460 *
US-PATENT-APPL-SN-213004 ..... c 14 N73-19421 *
US-PATENT-APPL-SN-213392 ..... c 27 N90-23566 *
US-PATENT-APPL-SN-213558 ..... c 51 N91-30667 *
US-PATENT-APPL-SN-213559 ..... c 51 N91-21700 *
US-PATENT-APPL-SN-213836 ..... c 15 N70-38601 *
US-PATENT-APPL-SN-213880 ..... c 54 N90-25498 *
US-PATENT-APPL-SN-213949 ..... c 07 N73-20175 *
US-PATENT-APPL-SN-214006 ..... c 37 N74-18126 *
US-PATENT-APPL-SN-214084 ..... c 37 N74-18123 *
US-PATENT-APPL-SN-214086 ..... c 14 N73-30395 *
US-PATENT-APPL-SN-214089 ..... c 35 N74-21018 *
US-PATENT-APPL-SN-214361 ..... c 37 N83-32067 *
US-PATENT-APPL-SN-21508 ..... c 08 N72-20176 *
US-PATENT-APPL-SN-21644 ..... c 05 N72-22092 *
US-PATENT-APPL-SN-216710 ..... c 12 N70-38997 *
US-PATENT-APPL-SN-216711 ..... c 03 N70-34157 *
US-PATENT-APPL-SN-216939 ..... c 14 N70-40400 *
US-PATENT-APPL-SN-217213 ..... c 37 N74-11301 *
US-PATENT-APPL-SN-21732 ..... c 15 N70-26819 * #
US-PATENT-APPL-SN-217336 ..... c 27 N82-29456 *
US-PATENT-APPL-SN-217533 ..... c 76 N88-29602 * #
US-PATENT-APPL-SN-217725 ..... c 35 N91-15511 *
US-PATENT-APPL-SN-218585 ..... c 27 N82-24340 *
US-PATENT-APPL-SN-218586 ..... c 36 N81-22344 * #
US-PATENT-APPL-SN-218587 ..... c 27 N82-28440 *
US-PATENT-APPL-SN-218588 ..... c 27 N82-33521 *
US-PATENT-APPL-SN-218792 ..... c 27 N91-31307 *
US-PATENT-APPL-SN-218965 ..... c 10 N73-32145 *
US-PATENT-APPL-SN-21906 ..... c 09 N72-17157 *
US-PATENT-APPL-SN-219295 ..... c 61 N91-14741 *
US-PATENT-APPL-SN-219435 ..... c 24 N74-27035 *
US-PATENT-APPL-SN-219436 ..... c 15 N72-21489 * #
US-PATENT-APPL-SN-219590 ..... c 06 N73-32030 *
US-PATENT-APPL-SN-219640 ..... c 74 N83-13978 *
US-PATENT-APPL-SN-219677 ..... c 44 N82-31764 *
US-PATENT-APPL-SN-219678 ..... c 44 N82-29709 *
US-PATENT-APPL-SN-219680 ..... c 27 N82-28442 *
US-PATENT-APPL-SN-219681 ..... c 24 N82-29362 *
US-PATENT-APPL-SN-219681 ..... c 54 N84-11758 *
US-PATENT-APPL-SN-219722 ..... c 03 N75-30132 *
US-PATENT-APPL-SN-219806 ..... c 07 N74-28226 *
US-PATENT-APPL-SN-219968 ..... c 33 N83-27126 *
US-PATENT-APPL-SN-220212 ..... c 33 N83-31952 *
US-PATENT-APPL-SN-220213 ..... c 37 N85-20337 *
US-PATENT-APPL-SN-220214 ..... c 44 N82-29710 *
US-PATENT-APPL-SN-220251 ..... c 37 N74-15125 *
US-PATENT-APPL-SN-220274 ..... c 31 N72-20840 * #
US-PATENT-APPL-SN-220274 ..... c 18 N74-22136 *
US-PATENT-APPL-SN-220785 ..... c 85 N74-34672 *
US-PATENT-APPL-SN-221093 ..... c 17 N73-32415 *
US-PATENT-APPL-SN-221276 ..... c 14 N70-41955 *
US-PATENT-APPL-SN-221386 ..... c 23 N90-21118 *
US-PATENT-APPL-SN-221386 ..... c 23 N91-14418 *
US-PATENT-APPL-SN-221388 ..... c 37 N90-20408 *
US-PATENT-APPL-SN-221472 ..... c 54 N89-13889 * #
US-PATENT-APPL-SN-221634 ..... c 05 N70-34857 *
US-PATENT-APPL-SN-221637 ..... c 26 N70-36805 *
US-PATENT-APPL-SN-221670 ..... c 35 N77-14408 *
US-PATENT-APPL-SN-221685 ..... c 35 N74-21062 *
US-PATENT-APPL-SN-221714 ..... c 09 N73-32110 *
US-PATENT-APPL-SN-221833 ..... c 09 N73-27150 * #
US-PATENT-APPL-SN-221945 ..... c 31 N70-36410 *
US-PATENT-APPL-SN-22265 ..... c 14 N72-21405 *
US-PATENT-APPL-SN-223003 ..... c 33 N70-36846 *
US-PATENT-APPL-SN-223122 ..... c 37 N91-14614 *
US-PATENT-APPL-SN-223124 ..... c 31 N90-19427 *
US-PATENT-APPL-SN-22320 ..... c 14 N72-11365 *
US-PATENT-APPL-SN-223560 ..... c 10 N73-32144 *
US-PATENT-APPL-SN-224231 ..... c 06 N83-10040 *
US-PATENT-APPL-SN-224231 ..... c 06 N84-34443 *
US-PATENT-APPL-SN-224232 ..... c 36 N83-29680 *
US-PATENT-APPL-SN-224489 ..... c 31 N74-18089 *
US-PATENT-APPL-SN-225427 ..... c 37 N91-15544 *
US-PATENT-APPL-SN-225499 ..... c 37 N84-12491 *
US-PATENT-APPL-SN-225501 ..... c 44 N82-28780 *
US-PATENT-APPL-SN-226476 ..... c 10 N73-32143 *
US-PATENT-APPL-SN-226477 ..... c 74 N74-27866 *
US-PATENT-APPL-SN-226551 ..... c 06 N73-26100 *
US-PATENT-APPL-SN-227682 ..... c 14 N70-34161 *
US-PATENT-APPL-SN-227683 ..... c 02 N70-36804 *
US-PATENT-APPL-SN-227692 ..... c 14 N70-40003 *
US-PATENT-APPL-SN-227977 ..... c 25 N76-18245 *
US-PATENT-APPL-SN-228049 ..... c 37 N79-33467 *
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US-PATENT-APPL-SN-228163 ..... c 44 N74-19693 *
US-PATENT-APPL-SN-228189 ..... c 35 N74-11283 *
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US-PATENT-APPL-SN-228229 ..... c 27 N77-31308 *
US-PATENT-APPL-SN-228507 ..... c 11 N70-38182 *
US-PATENT-APPL-SN-228569 ..... c 14 N71-16014 *
US-PATENT-APPL-SN-229128 ..... c 14 N73-28490 *
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US-PATENT-APPL-SN-229239 ..... c 31 N83-31897 *
US-PATENT-APPL-SN-229286 ..... c 33 N71-29052 *
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US-PATENT-APPL-SN-229354 ..... c 62 N74-14920 *
US-PATENT-APPL-SN-229413 ..... c 14 N73-32323 *
US-PATENT-APPL-SN-229693 ..... c 37 N84-22958 *
US-PATENT-APPL-SN-229916 ..... c 46 N74-13011 *
US-PATENT-APPL-SN-230613 ..... c 05 N83-27975 *
US-PATENT-APPL-SN-231025 ..... c 33 N88-29095 * #
US-PATENT-APPL-SN-231026 ..... c 27 N91-15402 *
US-PATENT-APPL-SN-231027 ..... c 27 N90-21177 *
US-PATENT-APPL-SN-23132 ..... c 08 N72-22163 *
US-PATENT-APPL-SN-231520 ..... c 27 N71-29155 *
US-PATENT-APPL-SN-231543 ..... c 07 N83-20944 *
US-PATENT-APPL-SN-231604 ..... c 28 N70-39925 *
US-PATENT-APPL-SN-231662 ..... c 14 N73-30392 *
US-PATENT-APPL-SN-232021 ..... c 04 N74-13420 *
US-PATENT-APPL-SN-232318 ..... c 11 N71-15960 *
US-PATENT-APPL-SN-232734 ..... c 29 N90-20236 *
US-PATENT-APPL-SN-232735 ..... c 76 N90-24150 *
US-PATENT-APPL-SN-232914 ..... c 15 N70-36412 *
US-PATENT-APPL-SN-233098 ..... c 12 N73-25262 *
US-PATENT-APPL-SN-233173 ..... c 12 N73-28144 *
US-PATENT-APPL-SN-233269 ..... c 76 N82-30105 *
US-PATENT-APPL-SN-233270 ..... c 52 N83-27578 *
US-PATENT-APPL-SN-233271 ..... c 27 N83-34043 *
US-PATENT-APPL-SN-233519 ..... c 20 N74-13502 *
US-PATENT-APPL-SN-233587 ..... c 16 N72-22520 * #
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US-PATENT-APPL-SN-234224 ..... c 36 N83-34304 *
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US-PATENT-APPL-SN-235295 ..... c 09 N73-30185 *
US-PATENT-APPL-SN-23532 ..... c 07 N72-21117 *
US-PATENT-APPL-SN-235338 ..... c 71 N74-31148 *
US-PATENT-APPL-SN-235472 ..... c 60 N84-28492 *
US-PATENT-APPL-SN-235588 ..... c 28 N71-28928 *
US-PATENT-APPL-SN-235796 ..... c 35 N82-28604 *
US-PATENT-APPL-SN-235797 ..... c 44 N83-32175 *
US-PATENT-APPL-SN-235868 ..... c 34 N83-29625 *
US-PATENT-APPL-SN-235957 ..... c 14 N73-27376 * #
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US-PATENT-APPL-SN-236749 ..... c 15 N70-40180 *
US-PATENT-APPL-SN-236985 ..... c 44 N74-19692 *
US-PATENT-APPL-SN-237029 ..... c 09 N73-32108 *
US-PATENT-APPL-SN-237035 ..... c 35 N91-15512 *
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US-PATENT-APPL-SN-238257 ..... c 07 N84-33410 *
US-PATENT-APPL-SN-238263 ..... c 35 N74-10415 *
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US-PATENT-APPL-SN-238790 ..... c 44 N82-29708 *
US-PATENT-APPL-SN-238791 ..... c 71 N84-14873 *
US-PATENT-APPL-SN-238826 ..... c 28 N77-10213 *
US-PATENT-APPL-SN-238887 ..... c 37 N81-22360 * #
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US-PATENT-APPL-SN-241615 ..... c 09 N73-32111 *
US-PATENT-APPL-SN-242027 ..... c 52 N74-12778 *
US-PATENT-APPL-SN-242028 ..... c 21 N73-30641 *
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US-PATENT-APPL-SN-242253 ..... c 03 N91-15142 *
US-PATENT-APPL-SN-242254 ..... c 33 N91-31530 *
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US-PATENT-APPL-SN-244369 ..... c 29 N90-21209 *
US-PATENT-APPL-SN-244377 ..... c 31 N91-15424 *
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US-PATENT-APPL-SN-244523 ..... c 31 N73-30829 *
US-PATENT-APPL-SN-244566 ..... c 74 N74-20008 *
US-PATENT-APPL-SN-245063 ..... c 33 N74-11049 *
US-PATENT-APPL-SN-245279 ..... c 25 N74-30502 *
US-PATENT-APPL-SN-245571 ..... c 07 N84-22560 *
US-PATENT-APPL-SN-245941 ..... c 33 N71-17897 *
US-PATENT-APPL-SN-246032 ..... c 32 N91-14523 *
US-PATENT-APPL-SN-246056 ..... c 38 N74-15395 *
US-PATENT-APPL-SN-246294 ..... c 27 N82-29454 *
US-PATENT-APPL-SN-246295 ..... c 27 N82-29452 *
US-PATENT-APPL-SN-246594 ..... c 37 N90-23742 *
US-PATENT-APPL-SN-246595 ..... c 35 N89-12842 * #
US-PATENT-APPL-SN-246772 ..... c 44 N83-10494 *
US-PATENT-APPL-SN-246773 ..... c 35 N83-29650 *
US-PATENT-APPL-SN-246774 ..... c 34 N83-31993 *
US-PATENT-APPL-SN-246777 ..... c 45 N83-25217 *

US-PATENT-APPL-SN-246778 ..... c 36 N83-35350 *
US-PATENT-APPL-SN-247055 ..... c 37 N74-11300 *
US-PATENT-APPL-SN-247090 ..... c 37 N74-18128 *
US-PATENT-APPL-SN-247136 ..... c 14 N71-30265 *
US-PATENT-APPL-SN-247419 ..... c 14 N70-36907 *
US-PATENT-APPL-SN-247423 ..... c 01 N71-13410 *
US-PATENT-APPL-SN-247434 ... c 25 N76-29379 *
US-PATENT-APPL-SN-247434 ..... c 25 N76-27383 *
US-PATENT-APPL-SN-247481 ..... c 05 N73-26071 *
US-PATENT-APPL-SN-248009 ..... c 23 N91-27220 *
US-PATENT-APPL-SN-248010 ..... c 37 N89-12866 * #
US-PATENT-APPL-SN-248018 ..... c 24 N90-25197 *
US-PATENT-APPL-SN-248019 ..... c 76 N89-14120 * #
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US-PATENT-APPL-SN-248744 ..... c 05 N83-19737 *
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US-PATENT-APPL-SN-248746 ..... c 37 N83-36482 *
US-PATENT-APPL-SN-248761 ..... c 15 N74-27360 *
US-PATENT-APPL-SN-248985 ..... c 03 N71-29129 *
US-PATENT-APPL-SN-249304 ..... c 35 N84-14491 *
US-PATENT-APPL-SN-249537 ..... c 14 N71-10797 *
US-PATENT-APPL-SN-249539 ..... c 28 N71-15658 *
US-PATENT-APPL-SN-249540 ..... c 15 N70-34861 *
US-PATENT-APPL-SN-249542 ..... c 28 N70-41576 *
US-PATENT-APPL-SN-250195 ..... c 34 N90-23700 *
US-PATENT-APPL-SN-250196 ..... c 37 N89-12868 * #
US-PATENT-APPL-SN-250451 ..... c 08 N70-34787 *
US-PATENT-APPL-SN-250468 ..... c 05 N91-27156 *
US-PATENT-APPL-SN-250469 ..... c 37 N90-22042 *
US-PATENT-APPL-SN-250567 ..... c 33 N71-24876 *
US-PATENT-APPL-SN-250585 ..... c 32 N85-21428 *
US-PATENT-APPL-SN-250661 ..... c 23 N89-11814 * #
US-PATENT-APPL-SN-250662 ..... c 37 N91-14615 *
US-PATENT-APPL-SN-250766 ..... c 07 N73-30115 *
US-PATENT-APPL-SN-250974 ..... c 31 N71-15664 *
US-PATENT-APPL-SN-251009 ..... c 33 N84-16452 *
US-PATENT-APPL-SN-251073 ..... c 35 N90-23713 *
US-PATENT-APPL-SN-251411 ..... c 09 N91-14356 *
US-PATENT-APPL-SN-251438 ..... c 35 N90-23707 *
US-PATENT-APPL-SN-251439 ..... c 31 N90-20254 *
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US-PATENT-APPL-SN-251451 ..... c 09 N70-35425 *
US-PATENT-APPL-SN-251499 ..... c 24 N91-15320 *
US-PATENT-APPL-SN-251609 ..... c 05 N73-30078 *
US-PATENT-APPL-SN-251621 ..... c 16 N73-32391 *
US-PATENT-APPL-SN-251752 ..... c 24 N74-30001 *
US-PATENT-APPL-SN-25175 ..... c 28 N70-39895 *
US-PATENT-APPL-SN-252077 ..... c 34 N90-21999 *
US-PATENT-APPL-SN-252078 ..... c 24 N90-23480 *
US-PATENT-APPL-SN-252081 ..... c 05 N90-20079 *
US-PATENT-APPL-SN-252259 ..... c 33 N70-34545 *
US-PATENT-APPL-SN-253249 ..... c 33 N74-11050 *
US-PATENT-APPL-SN-253405 ..... c 10 N73-26228 *
US-PATENT-APPL-SN-253725 ..... c 35 N74-13129 *
US-PATENT-APPL-SN-253774 ..... c 25 N70-36946 *
US-PATENT-APPL-SN-254173 ..... c 35 N75-13213 *
US-PATENT-APPL-SN-254177 ..... c 10 N73-26230 *
US-PATENT-APPL-SN-254323 ..... c 35 N76-15434 *
US-PATENT-APPL-SN-254575 ..... c 25 N83-10126 *
US-PATENT-APPL-SN-254688 ..... c 52 N83-27577 *
US-PATENT-APPL-SN-254847 ..... c 15 N71-22874 *
US-PATENT-APPL-SN-25487 ..... c 08 N72-21197 *
US-PATENT-APPL-SN-25488 ..... c 08 N72-25206 *
US-PATENT-APPL-SN-255132 ..... c 14 N71-15598 *
US-PATENT-APPL-SN-256317 ..... c 52 N74-26626 *
US-PATENT-APPL-SN-256484 ..... c 06 N70-34946 *
US-PATENT-APPL-SN-256493 ..... c 20 N77-17143 *
US-PATENT-APPL-SN-257346 ..... c 15 N70-36901 *
US-PATENT-APPL-SN-257593 ..... c 36 N90-25340 *
US-PATENT-APPL-SN-258152 ..... c 35 N74-15090 *
US-PATENT-APPL-SN-258171 ..... c 34 N74-27744 *
US-PATENT-APPL-SN-258331 ..... c 03 N73-31988 *
US-PATENT-APPL-SN-258623 ..... c 60 N83-32342 *
US-PATENT-APPL-SN-258931 ..... c 14 N70-40203 *
US-PATENT-APPL-SN-258932 ..... c 05 N70-36493 *
US-PATENT-APPL-SN-259056 ..... c 27 N82-29455 *
US-PATENT-APPL-SN-259208 ..... c 44 N85-30474 *
US-PATENT-APPL-SN-259209 ..... c 01 N83-35992 *
US-PATENT-APPL-SN-259210 ..... c 32 N83-27085 *
US-PATENT-APPL-SN-259211 ..... c 44 N84-14583 *
US-PATENT-APPL-SN-259212 ..... c 35 N84-22931 *
US-PATENT-APPL-SN-259487 ..... c 33 N70-36847 *
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US-PATENT-APPL-SN-260093 ..... c 25 N74-26948 *
US-PATENT-APPL-SN-260241 ..... c 74 N74-21304 *
US-PATENT-APPL-SN-260762 ..... c 72 N91-14813 *
US-PATENT-APPL-SN-261183 ..... c 09 N74-30597 *
US-PATENT-APPL-SN-261912 ..... c 14 N70-34818 *
US-PATENT-APPL-SN-261917 ..... c 09 N70-40272 *
US-PATENT-APPL-SN-261918 ..... c 28 N70-41447 *
US-PATENT-APPL-SN-262268 ..... c 24 N91-25200 *
US-PATENT-APPL-SN-262430 ..... c 35 N74-18323 *
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US-PATENT-APPL-SN-263230 ..... c 33 N74-20860 *
US-PATENT-APPL-SN-263498 ..... c 34 N74-27859 *
US-PATENT-APPL-SN-26375 ..... c 02 N70-33286 *
US-PATENT-APPL-SN-26375 ..... c 02 N70-34858 *
US-PATENT-APPL-SN-263815 ..... c 09 N74-17955 *
US-PATENT-APPL-SN-263828 ..... c 34 N83-19015 *
US-PATENT-APPL-SN-263829 ..... c 05 N84-12154 *
US-PATENT-APPL-SN-263830 ..... c 44 N83-28573 *
US-PATENT-APPL-SN-263957 ..... c 52 N83-25346 *
US-PATENT-APPL-SN-264107 ..... c 35 N90-22023 *
US-PATENT-APPL-SN-264268 ..... c 31 N78-17238 *
US-PATENT-APPL-SN-264326 ..... c 63 N91-31885 *
US-PATENT-APPL-SN-264378 ..... c 24 N83-10117 *
US-PATENT-APPL-SN-264378 ..... c 70 N84-28565 *
US-PATENT-APPL-SN-264380 ..... c 44 N83-14692 *
US-PATENT-APPL-SN-264381 ..... c 52 N84-28388 *
US-PATENT-APPL-SN-264381 ..... c 52 N84-28389 *
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US-PATENT-APPL-SN-264729 ..... c 33 N70-34540 *
US-PATENT-APPL-SN-264731 ..... c 09 N70-41655 *
US-PATENT-APPL-SN-264735 ..... c 28 N70-33265 *
US-PATENT-APPL-SN-264736 ..... c 28 N70-36802 *
US-PATENT-APPL-SN-264993 ..... c 05 N91-14345 *
US-PATENT-APPL-SN-26573 ..... c 31 N72-22874 *
US-PATENT-APPL-SN-266045 ..... c 27 N91-15403 *
US-PATENT-APPL-SN-266107 ..... c 11 N71-15925 *
US-PATENT-APPL-SN-266253 ..... c 04 N84-22546 *
US-PATENT-APPL-SN-266254 ..... c 24 N83-13172 *
US-PATENT-APPL-SN-266255 ..... c 44 N83-27344 *
US-PATENT-APPL-SN-266256 ..... c 24 N83-13171 *
US-PATENT-APPL-SN-266687 ..... c 32 N84-22820 *
US-PATENT-APPL-SN-266688 ..... c 37 N83-36483 *
US-PATENT-APPL-SN-266771 ..... c 37 N74-18127 *
US-PATENT-APPL-SN-266820 ..... c 07 N74-31270 *
US-PATENT-APPL-SN-266822 ..... c 32 N74-10132 *
US-PATENT-APPL-SN-266832 ..... c 33 N74-10195 *
US-PATENT-APPL-SN-266866 ..... c 33 N73-32818 *
US-PATENT-APPL-SN-266899 ..... c 60 N74-12888 *
US-PATENT-APPL-SN-266911 ..... c 36 N74-20009 *
US-PATENT-APPL-SN-266912 ..... c 32 N74-19788 *
US-PATENT-APPL-SN-266913 ..... c 31 N74-23065 *
US-PATENT-APPL-SN-266925 ..... c 54 N74-17853 *
US-PATENT-APPL-SN-266928 ..... c 26 N74-10521 *
US-PATENT-APPL-SN-266930 ..... c 54 N74-12779 *
US-PATENT-APPL-SN-266940 ..... c 32 N74-32598 *
US-PATENT-APPL-SN-266943 ..... c 72 N74-19310 *
US-PATENT-APPL-SN-267146 ..... c 37 N90-20409 *
US-PATENT-APPL-SN-267178 ..... c 74 N84-11920 *
US-PATENT-APPL-SN-267179 ..... c 35 N84-12445 *
US-PATENT-APPL-SN-267572 ..... c 73 N74-26767 *
US-PATENT-APPL-SN-267768 ..... c 70 N74-21300 *
US-PATENT-APPL-SN-267862 ..... c 33 N74-21851 *
US-PATENT-APPL-SN-267935 ..... c 71 N83-17235 *
US-PATENT-APPL-SN-269073 ..... c 52 N74-26625 *
US-PATENT-APPL-SN-269212 ..... c 07 N71-10775 *
US-PATENT-APPL-SN-269215 ..... c 14 N70-41332 *
US-PATENT-APPL-SN-269222 ..... c 15 N70-38225 *
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US-PATENT-APPL-SN-270118 ..... c 33 N71-17610 *
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US-PATENT-APPL-SN-270763 ..... c 36 N84-14509 *
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US-PATENT-APPL-SN-271822 ..... c 15 N71-15967 *
US-PATENT-APPL-SN-271823 ..... c 27 N71-28929 *
US-PATENT-APPL-SN-271824 ..... c 07 N71-21476 *
US-PATENT-APPL-SN-271951 ..... c 35 N74-15092 *
US-PATENT-APPL-SN-272152 ..... c 27 N83-29388 *
US-PATENT-APPL-SN-272233 ..... c 44 N81-27615 * #
US-PATENT-APPL-SN-272234 ..... c 25 N83-13188 *
US-PATENT-APPL-SN-272406 ..... c 33 N84-14422 *
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US-PATENT-APPL-SN-272837 ..... c 71 N83-36846 *
US-PATENT-APPL-SN-273222 ..... c 33 N74-27683 *
US-PATENT-APPL-SN-273240 ..... c 35 N74-16135 *
US-PATENT-APPL-SN-27340 ..... c 15 N72-20442 *
US-PATENT-APPL-SN-273519 ..... c 35 N75-25122 *
US-PATENT-APPL-SN-273534 ..... c 09 N70-38712 *
US-PATENT-APPL-SN-274348 ..... c 60 N76-18800 *
US-PATENT-APPL-SN-274360 ..... c 32 N74-20809 *
US-PATENT-APPL-SN-274705 ..... c 44 N83-21503 *
US-PATENT-APPL-SN-274706 ..... c 44 N83-21504 *
US-PATENT-APPL-SN-274708 ..... c 35 N84-22929 *
US-PATENT-APPL-SN-275118 ..... c 35 N74-18088 *
US-PATENT-APPL-SN-275909 ..... c 33 N85-21491 *
US-PATENT-APPL-SN-276076 ..... c 72 N84-16959 * #
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US-PATENT-APPL-SN-276748 ..... c 33 N83-34189 *
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US-PATENT-APPL-SN-278790 ..... c 15 N70-34664 *
US-PATENT-APPL-SN-2792 ..... c 14 N70-33386 *
US-PATENT-APPL-SN-279624 ..... c 24 N89-23623 * #
US-PATENT-APPL-SN-279625 ..... c 31 N90-23586 *
US-PATENT-APPL-SN-279630 ..... c 60 N90-25583 *
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US-PATENT-APPL-SN-280031 ..... c 26 N73-26752 *
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US-PATENT-APPL-SN-280154 ..... c 33 N83-10345 *
US-PATENT-APPL-SN-280155 ..... c 24 N84-11214 *
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US-PATENT-APPL-SN-280362 ..... c 14 N71-28935 *
US-PATENT-APPL-SN-280390 ..... c 37 N74-15128 *
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US-PATENT-APPL-SN-280776 ..... c 14 N70-40273 *
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US-PATENT-APPL-SN-282191 ..... c 35 N83-29651 *
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US-PATENT-APPL-SN-282817 ..... c 15 N70-40156 *
US-PATENT-APPL-SN-282818 ..... c 14 N71-14996 *
US-PATENT-APPL-SN-283092 ..... c 35 N91-21496 *
US-PATENT-APPL-SN-283106 ..... c 62 N91-14769 *
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US-PATENT-APPL-SN-284265 ..... c 14 N70-34799 *
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US-PATENT-APPL-SN-298150 ..... c 25 N91-21270 *
US-PATENT-APPL-SN-298156 ..... c 37 N75-13261 *
US-PATENT-APPL-SN-298156 ..... c 26 N75-19408 *
US-PATENT-APPL-SN-298157 ..... c 33 N74-21850 *
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US-PATENT-APPL-SN-298800 ..... c 14 N70-34705 *
US-PATENT-APPL-SN-299042 ..... c 15 N71-15918 *
US-PATENT-APPL-SN-29917 ..... c 15 N73-13465 *
US-PATENT-APPL-SN-29917 ..... c 26 N74-10521 *
US-PATENT-APPL-SN-29917 ..... c 37 N74-13179 *
US-PATENT-APPL-SN-29979 ..... c 09 N75-15662 *
US-PATENT-APPL-SN-300113 ..... c 33 N70-33344 *
US-PATENT-APPL-SN-300712 ..... c 15 N70-35407 *
US-PATENT-APPL-SN-300957 ..... c 33 N71-29053 *
US-PATENT-APPL-SN-301039 ..... c 37 N74-27903 *
US-PATENT-APPL-SN-301075 ..... c 25 N83-29324 *
US-PATENT-APPL-SN-301077 ..... c 33 N84-14421 *
US-PATENT-APPL-SN-301078 ..... c 08 N85-19985 *
US-PATENT-APPL-SN-301417 ..... c 71 N74-21014 *
US-PATENT-APPL-SN-301418 ..... c 52 N76-29894 *
US-PATENT-APPL-SN-301419 ..... c 34 N76-17317 *
US-PATENT-APPL-SN-301683 ..... c 07 N71-15907 *
US-PATENT-APPL-SN-301925 ..... c 27 N89-25334 * #
US-PATENT-APPL-SN-302681 ..... c 37 N75-12326 *
US-PATENT-APPL-SN-302749 ..... c 14 N70-40201 *
US-PATENT-APPL-SN-302913 ..... c 76 N79-16678 *
US-PATENT-APPL-SN-303670 ..... c 37 N82-11469 * #
US-PATENT-APPL-SN-303671 ..... c 31 N83-31896 *
US-PATENT-APPL-SN-303672 ..... c 71 N83-32516 *
US-PATENT-APPL-SN-304147 ..... c 27 N90-23541 *
US-PATENT-APPL-SN-304149 ..... c 31 N89-29577 * #
US-PATENT-APPL-SN-304154 ..... c 37 N91-14607 *
US-PATENT-APPL-SN-304155 ..... c 74 N91-14835 *
US-PATENT-APPL-SN-304430 ..... c 52 N74-27864 *
US-PATENT-APPL-SN-304698 ..... c 32 N70-41579 *
US-PATENT-APPL-SN-304705 ..... c 32 N74-20810 *
US-PATENT-APPL-SN-304749 ..... c 11 N71-16028 *
US-PATENT-APPL-SN-30498 ..... c 37 N74-21063 *
US-PATENT-APPL-SN-305012 ..... c 35 N74-15094 *
US-PATENT-APPL-SN-305013 ..... c 14 N73-13435 * #
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US-PATENT-APPL-SN-305638 ..... c 34 N74-23066 *
US-PATENT-APPL-SN-305639 ..... c 37 N74-27904 *
US-PATENT-APPL-SN-305675 ..... c 33 N91-31529 *
US-PATENT-APPL-SN-306652 ..... c 33 N74-32712 *
US-PATENT-APPL-SN-307269 ..... c 24 N71-10560 *
US-PATENT-APPL-SN-307270 ..... c 10 N71-16030 *
US-PATENT-APPL-SN-307271 ..... c 09 N71-22999 *
US-PATENT-APPL-SN-307714 ..... c 03 N76-32140 *
US-PATENT-APPL-SN-307727 ..... c 32 N74-20813 *
US-PATENT-APPL-SN-307728 ..... c 34 N74-27861 *
US-PATENT-APPL-SN-307729 ..... c 31 N74-27900 *
US-PATENT-APPL-SN-308007 ..... c 44 N83-34448 *
US-PATENT-APPL-SN-308009 ..... c 33 N83-36355 *
US-PATENT-APPL-SN-308201 ..... c 27 N83-28240 *
US-PATENT-APPL-SN-308201 ..... c 27 N85-21349 *
US-PATENT-APPL-SN-308203 ..... c 34 N84-12406 *
US-PATENT-APPL-SN-308204 ..... c 44 N83-28574 *
US-PATENT-APPL-SN-308918 ..... c 27 N71-15634 *
US-PATENT-APPL-SN-309291 ..... c 37 N88-23982 *
US-PATENT-APPL-SN-309292 ..... c 37 N84-28085 *
US-PATENT-APPL-SN-309293 ..... c 25 N83-13187 *
US-PATENT-APPL-SN-309354 ..... c 11 N71-15926 *
US-PATENT-APPL-SN-310034 ..... c 32 N74-30524 *
US-PATENT-APPL-SN-310193 ..... c 33 N74-27682 *
US-PATENT-APPL-SN-310506 ..... c 10 N71-16042 *
US-PATENT-APPL-SN-310507 ..... c 07 N71-11298 *
US-PATENT-APPL-SN-310615 ..... c 37 N74-27901 *
US-PATENT-APPL-SN-310616 ..... c 35 N74-21017 *
US-PATENT-APPL-SN-310624 ..... c 33 N74-17929 *
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US-PATENT-APPL-SN-311024 ..... c 60 N91-31810 *
US-PATENT-APPL-SN-311175 ..... c 52 N74-22771 *
US-PATENT-APPL-SN-311234 ..... c 35 N74-23040 *
US-PATENT-APPL-SN-311387 ..... c 23 N71-30027 *
US-PATENT-APPL-SN-311551 ..... c 23 N91-14418 *
US-PATENT-APPL-SN-312269 ..... c 28 N71-14043 *
US-PATENT-APPL-SN-31242 ..... c 28 N70-33374 *
US-PATENT-APPL-SN-312443 ..... c 10 N71-21473 *
US-PATENT-APPL-SN-313132 ..... c 28 N70-34175 *
US-PATENT-APPL-SN-313135 ..... c 15 N70-35087 *
US-PATENT-APPL-SN-313136 ..... c 09 N71-12540 *
US-PATENT-APPL-SN-313381 ..... c 35 N74-15091 *
US-PATENT-APPL-SN-313839 ..... c 37 N90-21390 *
US-PATENT-APPL-SN-314074 ..... c 15 N71-16079 *
US-PATENT-APPL-SN-314570 ..... c 10 N71-28960 *
US-PATENT-APPL-SN-314572 ..... c 14 N71-15992 *
US-PATENT-APPL-SN-314656 ..... c 51 N77-25769 *
US-PATENT-APPL-SN-314702 ..... c 71 N84-16940 *
US-PATENT-APPL-SN-314928 ..... c 32 N84-34651 *
US-PATENT-APPL-SN-314929 ..... c 71 N83-32515 *
US-PATENT-APPL-SN-315048 ..... c 34 N74-27730 *
US-PATENT-APPL-SN-315069 ..... c 33 N74-20862 *
US-PATENT-APPL-SN-315070 ..... c 60 N76-23850 *
US-PATENT-APPL-SN-315096 ..... c 12 N70-40124 *
US-PATENT-APPL-SN-3151 ..... c 05 N72-27102 *
US-PATENT-APPL-SN-315278 ..... c 51 N83-28849 *
US-PATENT-APPL-SN-315583 ..... c 35 N84-33769 *
US-PATENT-APPL-SN-315584 ..... c 23 N84-16255 *
US-PATENT-APPL-SN-315587 ..... c 25 N83-31743 *
US-PATENT-APPL-SN-315588 ..... c 05 N84-22551 *
US-PATENT-APPL-SN-316477 ..... c 18 N71-10772 *
US-PATENT-APPL-SN-316618 ..... c 07 N74-15453 *
US-PATENT-APPL-SN-31702 ..... c 16 N73-16536 *
US-PATENT-APPL-SN-31703 ..... c 09 N72-21244 *
US-PATENT-APPL-SN-317310 ..... c 36 N77-25502 *
US-PATENT-APPL-SN-317389 ..... c 18 N70-41583 *
US-PATENT-APPL-SN-317391 ..... c 15 N71-15968 *
US-PATENT-APPL-SN-317567 ..... c 36 N75-15029 *
US-PATENT-APPL-SN-317658 ..... c 36 N84-16542 *
US-PATENT-APPL-SN-317776 ..... c 51 N91-13860 * #
US-PATENT-APPL-SN-317931 ..... c 51 N90-18852 * #
US-PATENT-APPL-SN-317977 ..... c 25 N83-36118 *
US-PATENT-APPL-SN-318151 ..... c 75 N74-30156 *
US-PATENT-APPL-SN-318152 ..... c 52 N74-20728 *
US-PATENT-APPL-SN-318217 ..... c 35 N91-13694 *
US-PATENT-APPL-SN-318357 ..... c 35 N74-21019 *
US-PATENT-APPL-SN-318358 ..... c 27 N74-27037 *
US-PATENT-APPL-SN-318443 ..... c 03 N70-34667 *
US-PATENT-APPL-SN-318848 ..... c 35 N77-14408 *
US-PATENT-APPL-SN-31885 ..... c 10 N72-17172 *
US-PATENT-APPL-SN-319150 ..... c 33 N75-19519 *
US-PATENT-APPL-SN-319410 ..... c 37 N74-20063 *
US-PATENT-APPL-SN-319892 ..... c 07 N71-10609 *
US-PATENT-APPL-SN-319893 ..... c 14 N70-41647 *
US-PATENT-APPL-SN-319894 ..... c 03 N71-11053 *
US-PATENT-APPL-SN-319905 ..... c 14 N71-10781 *
US-PATENT-APPL-SN-320233 ..... c 33 N71-15625 *
US-PATENT-APPL-SN-320595 ..... c 26 N70-40015 *
US-PATENT-APPL-SN-320621 ..... c 27 N83-34040 *
US-PATENT-APPL-SN-321179 ..... c 27 N74-21156 *
US-PATENT-APPL-SN-321180 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-321656 ..... c 14 N70-41807 *
US-PATENT-APPL-SN-322312 ..... c 25 N84-22709 *
US-PATENT-APPL-SN-322314 ..... c 35 N84-12443 *
US-PATENT-APPL-SN-322316 ..... c 31 N83-19947 *
US-PATENT-APPL-SN-322317 ..... c 46 N85-21846 *
US-PATENT-APPL-SN-322321 ..... c 37 N85-21651 *
US-PATENT-APPL-SN-322545 ..... c 14 N71-10774 *
US-PATENT-APPL-SN-322565 ..... c 37 N75-27376 *
US-PATENT-APPL-SN-322997 ..... c 37 N75-15992 *
US-PATENT-APPL-SN-322997 ..... c 24 N79-25143 *
US-PATENT-APPL-SN-322998 ..... c 35 N74-32877 *
US-PATENT-APPL-SN-323182 ..... c 03 N70-41864 *
US-PATENT-APPL-SN-323236 ..... c 24 N90-21822 *
US-PATENT-APPL-SN-323748 ..... c 61 N90-16411 * #
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US-PATENT-APPL-SN-32496 ..... c 15 N70-37925 *
US-PATENT-APPL-SN-325082 ..... c 35 N83-29652 *
US-PATENT-APPL-SN-325083 ..... c 33 N84-16456 *
US-PATENT-APPL-SN-325784 ..... c 24 N76-14204 *
US-PATENT-APPL-SN-325885 ..... c 35 N82-25484 * #
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US-PATENT-APPL-SN-325931 ..... c 37 N82-26674 * #
US-PATENT-APPL-SN-325932 ..... c 33 N84-16455 *
US-PATENT-APPL-SN-325933 ..... c 76 N83-20789 *
US-PATENT-APPL-SN-326198 ..... c 35 N75-12272 *
US-PATENT-APPL-SN-326298 ..... c 14 N71-22765 *
US-PATENT-APPL-SN-326299 ..... c 26 N71-17818 *
US-PATENT-APPL-SN-326326 ..... c 35 N74-32879 *
US-PATENT-APPL-SN-326327 ..... c 44 N74-27519 *
US-PATENT-APPL-SN-326364 ..... c 51 N75-13502 *
US-PATENT-APPL-SN-32664 ..... c 11 N72-25287 *
US-PATENT-APPL-SN-32665 ..... c 14 N72-22444 *
US-PATENT-APPL-SN-326756 ..... c 71 N91-14808 *
US-PATENT-APPL-SN-326757 ..... c 24 N90-23493 *
US-PATENT-APPL-SN-326757 ..... c 24 N91-17145 *
US-PATENT-APPL-SN-326766 ..... c 35 N90-22024 *
US-PATENT-APPL-SN-326820 ..... c 35 N91-17350 *
US-PATENT-APPL-SN-326863 ..... c 37 N91-17387 *
US-PATENT-APPL-SN-327163 ..... c 03 N71-20895 *
US-PATENT-APPL-SN-327565 ..... c 02 N70-36825 *
US-PATENT-APPL-SN-327921 ..... c 54 N75-13531 *
US-PATENT-APPL-SN-327969 ..... c 35 N75-13213 *
US-PATENT-APPL-SN-328140 ..... c 18 N71-21651 *
US-PATENT-APPL-SN-328392 ..... c 27 N90-23545 *
US-PATENT-APPL-SN-328392 ..... c 23 N91-14419 *
US-PATENT-APPL-SN-328760 ..... c 31 N83-35177 *
US-PATENT-APPL-SN-328792 ..... c 35 N75-12273 *
US-PATENT-APPL-SN-329237 ..... c 33 N74-34638 *
US-PATENT-APPL-SN-329243 ..... c 28 N74-33209 *
US-PATENT-APPL-SN-329331 ..... c 15 N71-15906 *
US-PATENT-APPL-SN-329595 ..... c 05 N70-41329 *
US-PATENT-APPL-SN-329958 ..... c 33 N74-22885 *
US-PATENT-APPL-SN-330209 ..... c 15 N70-41646 *
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US-PATENT-APPL-SN-331323 ..... c 07 N71-16088 *
US-PATENT-APPL-SN-331324 ..... c 05 N70-35152 *
US-PATENT-APPL-SN-331551 ..... c 60 N91-23724 * #
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US-PATENT-APPL-SN-331759 ..... c 07 N76-18117 *
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US-PATENT-APPL-SN-332339 ..... c 07 N71-11284 *
US-PATENT-APPL-SN-332677 ..... c 33 N90-21951 *
US-PATENT-APPL-SN-333535 ..... c 74 N83-36898 *
US-PATENT-APPL-SN-333537 ..... c 44 N83-32176 *
US-PATENT-APPL-SN-333766 ..... c 31 N71-15663 *
US-PATENT-APPL-SN-333770 ..... c 21 N71-15583 *
US-PATENT-APPL-SN-333912 ..... c 32 N74-19790 *
US-PATENT-APPL-SN-33398 ..... c 14 N70-35587 * #
US-PATENT-APPL-SN-334349 ..... c 35 N75-19611 *
US-PATENT-APPL-SN-334672 ..... c 14 N70-41330 *
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US-PATENT-APPL-SN-335201 ..... c 33 N74-17927 *
US-PATENT-APPL-SN-33535 ..... c 06 N72-17093 *
US-PATENT-APPL-SN-335441 ..... c 14 N71-23268 *
US-PATENT-APPL-SN-336103 ..... c 16 N71-15550 *
US-PATENT-APPL-SN-336319 ..... c 44 N74-33379 *
US-PATENT-APPL-SN-336320 ..... c 15 N71-15966 *
US-PATENT-APPL-SN-336607 ..... c 10 N71-15910 *
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US-PATENT-APPL-SN-337487 ..... c 33 N74-26977 *
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US-PATENT-APPL-SN-338484 ..... c 32 N74-20811 *
US-PATENT-APPL-SN-339040 ..... c 31 N70-41373 *
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US-PATENT-APPL-SN-341406 ..... c 71 N83-35781 *
US-PATENT-APPL-SN-341467 ..... c 15 N70-39924 *
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US-PATENT-APPL-SN-341662 ..... c 08 N74-10942 *
US-PATENT-APPL-SN-3417 ..... c 15 N72-22490 *
US-PATENT-APPL-SN-3418 ..... c 15 N72-20446 *
US-PATENT-APPL-SN-3418 ..... c 15 N73-19457 *
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US-PATENT-APPL-SN-342574 ..... c 03 N71-20904 *
US-PATENT-APPL-SN-342828 ..... c 74 N85-29749 *
US-PATENT-APPL-SN-342857 ..... c 72 N84-28575 *
US-PATENT-APPL-SN-342871 ..... c 27 N84-33589 *
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US-PATENT-APPL-SN-343652 ..... c 33 N91-14537 *
US-PATENT-APPL-SN-343656 ..... c 76 N91-14872 *
US-PATENT-APPL-SN-343760 ..... c 07 N71-28979 *
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US-PATENT-APPL-SN-346372 ..... c 35 N75-12270 *
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US-PATENT-APPL-SN-352821 ..... c 44 N84-28205 *
US-PATENT-APPL-SN-352827 ..... c 35 N84-28015 *
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US-PATENT-APPL-SN-352831 ..... c 35 N84-16523 *
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US-PATENT-APPL-SN-357340 ..... c 23 N71-15673 *
US-PATENT-APPL-SN-357757 ..... c 14 N91-21176 *
US-PATENT-APPL-SN-357758 ..... c 76 N91-28014 *
US-PATENT-APPL-SN-357759 ..... c 62 N90-10608 * #
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US-PATENT-APPL-SN-358027 ..... c 35 N91-14587 *
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US-PATENT-APPL-SN-358089 ..... c 71 N84-23233 *
US-PATENT-APPL-SN-358127 ..... c 05 N71-12335 *
US-PATENT-APPL-SN-358398 ..... c 36 N84-22944 *
US-PATENT-APPL-SN-359039 ..... c 32 N74-30523 *
US-PATENT-APPL-SN-359156 ..... c 14 N75-24794 *
US-PATENT-APPL-SN-359157 ..... c 35 N74-18090 *
US-PATENT-APPL-SN-359382 ..... c 32 N85-34327 *
US-PATENT-APPL-SN-359388 ..... c 44 N83-32177 *
US-PATENT-APPL-SN-359459 ..... c 36 N89-28817 * #
US-PATENT-APPL-SN-359460 ..... c 36 N89-28816 * #
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US-PATENT-APPL-SN-359626 ..... c 35 N84-28018 *
US-PATENT-APPL-SN-359627 ..... c 35 N82-26631 * #
US-PATENT-APPL-SN-359627 ..... c 35 N85-29214 *
US-PATENT-APPL-SN-359801 ..... c 74 N91-27957 *
US-PATENT-APPL-SN-359957 ..... c 07 N74-32418 *
US-PATENT-APPL-SN-359958 ..... c 37 N74-26976 *
US-PATENT-APPL-SN-360180 ..... c 17 N71-16026 *
US-PATENT-APPL-SN-360182 ..... c 31 N70-36654 *
US-PATENT-APPL-SN-360878 ..... c 03 N71-11051 *
US-PATENT-APPL-SN-361200 ..... c 18 N89-28556 * #
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US-PATENT-APPL-SN-361216 ..... c 35 N84-28016 *
US-PATENT-APPL-SN-361217 ..... c 71 N85-22104 *
US-PATENT-APPL-SN-361479 ..... c 14 N91-21175 *
US-PATENT-APPL-SN-361531 ..... c 35 N89-28795 * #
US-PATENT-APPL-SN-361666 ..... c 33 N75-30428 *
US-PATENT-APPL-SN-361711 ..... c 24 N82-26387 * #
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US-PATENT-APPL-SN-361907 ..... c 35 N74-27865 *
US-PATENT-APPL-SN-362145 ..... c 32 N75-26194 *
US-PATENT-APPL-SN-362146 ..... c 33 N75-18479 *
US-PATENT-APPL-SN-362261 ..... c 14 N73-32325 *
US-PATENT-APPL-SN-362278 ..... c 37 N78-17385 *
US-PATENT-APPL-SN-363130 ..... c 25 N81-19244 *
US-PATENT-APPL-SN-363348 ..... c 05 N70-41581 *
US-PATENT-APPL-SN-363653 ..... c 07 N70-41331 *
US-PATENT-APPL-SN-363654 ..... c 07 N70-41372 *
US-PATENT-APPL-SN-363691 ..... c 20 N76-14190 *
US-PATENT-APPL-SN-363807 ..... c 35 N91-27522 *
US-PATENT-APPL-SN-363815 ..... c 33 N91-21434 *
US-PATENT-APPL-SN-364041 ..... c 76 N85-30923 *
US-PATENT-APPL-SN-364072 ..... c 70 N84-28565 *
US-PATENT-APPL-SN-364092 ..... c 76 N83-35888 *
US-PATENT-APPL-SN-364093 ..... c 37 N83-34323 *
US-PATENT-APPL-SN-364094 ..... c 37 N84-28083 *
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US-PATENT-APPL-SN-364774 ..... c 37 N91-14616 *
US-PATENT-APPL-SN-364867 ..... c 09 N71-10673 *
US-PATENT-APPL-SN-365244 ..... c 37 N78-17386 *
US-PATENT-APPL-SN-36531 ..... c 07 N72-25174 *
US-PATENT-APPL-SN-36534 ..... c 21 N73-14692 *
US-PATENT-APPL-SN-3654 ..... c 35 N77-27367 *
US-PATENT-APPL-SN-365644 ..... c 35 N74-26946 *
US-PATENT-APPL-SN-365950 ..... c 27 N83-18908 *
US-PATENT-APPL-SN-366025 ..... c 27 N84-22744 *
US-PATENT-APPL-SN-366103 ..... c 76 N84-35112 * #
US-PATENT-APPL-SN-366205 ..... c 35 N91-14590 *
US-PATENT-APPL-SN-366226 ..... c 10 N71-16057 *
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US-PATENT-APPL-SN-367134 ..... c 44 N83-34449 *
US-PATENT-APPL-SN-367136 ..... c 35 N85-21596 *
US-PATENT-APPL-SN-367187 ..... c 04 N84-14132 *
US-PATENT-APPL-SN-367268 ..... c 05 N75-25914 *
US-PATENT-APPL-SN-367293 ..... c 36 N75-19655 *
US-PATENT-APPL-SN-367294 ..... c 76 N75-12810 *
US-PATENT-APPL-SN-367606 ..... c 75 N75-13625 *
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US-PATENT-APPL-SN-368123 ..... c 09 N71-10618 *
US-PATENT-APPL-SN-368187 ..... c 54 N84-11758 *
US-PATENT-APPL-SN-368188 ..... c 33 N84-33663 *
US-PATENT-APPL-SN-368189 ..... c 18 N84-22605 *
US-PATENT-APPL-SN-36819 ..... c 23 N72-22673 *
US-PATENT-APPL-SN-36926 ..... c 28 N72-23810 *
US-PATENT-APPL-SN-369334 ..... c 21 N71-22880 *
US-PATENT-APPL-SN-369336 ..... c 09 N71-10659 *
US-PATENT-APPL-SN-369337 ..... c 15 N70-41811 *
US-PATENT-APPL-SN-369338 ..... c 08 N71-28925 *
US-PATENT-APPL-SN-369403 ..... c 35 N91-14588 *
US-PATENT-APPL-SN-369490 ..... c 19 N91-14412 *
US-PATENT-APPL-SN-369640 ..... c 32 N70-41370 *
US-PATENT-APPL-SN-3696 ..... c 10 N72-20224 *
US-PATENT-APPL-SN-370134 ..... c 30 N70-40353 *
US-PATENT-APPL-SN-370135 ..... c 11 N70-41677 *
US-PATENT-APPL-SN-370255 ..... c 33 N75-18477 *
US-PATENT-APPL-SN-370271 ..... c 32 N75-24981 *
US-PATENT-APPL-SN-37050 ..... c 33 N74-26732 *
US-PATENT-APPL-SN-370582 ..... c 18 N76-14186 *
US-PATENT-APPL-SN-370872 ..... c 37 N74-32918 *
US-PATENT-APPL-SN-370989 ..... c 23 N71-29049 *
US-PATENT-APPL-SN-370999 ..... c 74 N78-15879 *
US-PATENT-APPL-SN-371322 ..... c 44 N76-14600 *
US-PATENT-APPL-SN-371351 ..... c 76 N84-35113 *
US-PATENT-APPL-SN-371352 ..... c 52 N84-11744 *
US-PATENT-APPL-SN-371856 ..... c 15 N70-42033 *
US-PATENT-APPL-SN-371857 ..... c 07 N70-41680 *
US-PATENT-APPL-SN-372148 ..... c 35 N74-26949 *
US-PATENT-APPL-SN-372149 ..... c 37 N75-15050 *
US-PATENT-APPL-SN-372279 ..... c 35 N84-28019 *
US-PATENT-APPL-SN-372438 ..... c 30 N71-17788 *
US-PATENT-APPL-SN-372648 ..... c 27 N71-16348 *
US-PATENT-APPL-SN-372727 ..... c 31 N70-36845 *
US-PATENT-APPL-SN-372730 ..... c 28 N71-28850 *
US-PATENT-APPL-SN-373587 ..... c 33 N74-32711 *
US-PATENT-APPL-SN-373588 ..... c 33 N75-19515 *
US-PATENT-APPL-SN-373591 ..... c 31 N71-15692 *
US-PATENT-APPL-SN-373770 ..... c 35 N84-34705 *
US-PATENT-APPL-SN-373771 ..... c 35 N84-22934 *
US-PATENT-APPL-SN-373839 ..... c 33 N84-22887 *
US-PATENT-APPL-SN-374421 ..... c 27 N76-24405 *
US-PATENT-APPL-SN-374422 ..... c 32 N75-24982 *
US-PATENT-APPL-SN-374423 ..... c 36 N75-31427 *
US-PATENT-APPL-SN-374424 ..... c 74 N75-12732 *
US-PATENT-APPL-SN-374441 ..... c 35 N75-19616 *
US-PATENT-APPL-SN-374583 ..... c 33 N74-29556 *
US-PATENT-APPL-SN-374810 ..... c 27 N80-32514 *
US-PATENT-APPL-SN-375401 ..... c 17 N71-16025 *
US-PATENT-APPL-SN-375405 ..... c 31 N71-15675 *
US-PATENT-APPL-SN-375620 ..... c 43 N85-21723 *
US-PATENT-APPL-SN-375674 ..... c 28 N70-41582 *
US-PATENT-APPL-SN-375680 ..... c 10 N71-28739 *
US-PATENT-APPL-SN-375682 ..... c 31 N70-41588 *
US-PATENT-APPL-SN-375684 ..... c 44 N85-21769 *
US-PATENT-APPL-SN-375784 ..... c 24 N85-21266 *
US-PATENT-APPL-SN-375784 ..... c 24 N85-35233 *
US-PATENT-APPL-SN-376306 ..... c 25 N84-12262 *
US-PATENT-APPL-SN-376487 ..... c 25 N89-28603 * #
US-PATENT-APPL-SN-376488 ..... c 75 N91-25875 *
US-PATENT-APPL-SN-376738 ..... c 35 N90-10415 * #
US-PATENT-APPL-SN-377146 ..... c 14 N71-23041 *
US-PATENT-APPL-SN-377777 ..... c 32 N70-42003 *
US-PATENT-APPL-SN-377780 ..... c 11 N71-10604 *
US-PATENT-APPL-SN-377784 ..... c 28 N70-41311 *
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US-PATENT-APPL-SN-378080 ..... c 12 N71-24692 *
US-PATENT-APPL-SN-378126 ..... c 44 N76-18643 *
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US-PATENT-APPL-SN-378533 ..... c 37 N84-11497 *
US-PATENT-APPL-SN-378535 ..... c 74 N84-23248 *
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US-PATENT-APPL-SN-379072 ..... c 15 N71-16078 *
US-PATENT-APPL-SN-379417 ..... c 02 N70-41863 *
US-PATENT-APPL-SN-379601 ..... c 71 N85-30765 *
US-PATENT-APPL-SN-379602 ..... c 44 N84-23018 *
US-PATENT-APPL-SN-379768 ..... c 28 N71-10780 *
US-PATENT-APPL-SN-379771 ..... c 33 N71-28852 *
US-PATENT-APPL-SN-380046 ..... c 25 N76-29379 *
US-PATENT-APPL-SN-380630 ..... c 37 N75-21631 *
US-PATENT-APPL-SN-380960 ..... c 15 N70-41993 *
US-PATENT-APPL-SN-380965 ..... c 10 N71-23033 *
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US-PATENT-APPL-SN-382261 ..... c 35 N76-14430 *
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US-PATENT-APPL-SN-383068 ..... c 44 N84-34792 *
US-PATENT-APPL-SN-383083 ..... c 33 N84-16453 *
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US-PATENT-APPL-SN-384010 ..... c 10 N71-28859 *
US-PATENT-APPL-SN-384547 ..... c 36 N85-29264 *
US-PATENT-APPL-SN-384773 ..... c 15 N76-14158 *
US-PATENT-APPL-SN-384811 ..... c 15 N71-10809 *
US-PATENT-APPL-SN-385013 ..... c 35 N75-19613 *
US-PATENT-APPL-SN-385059 ..... c 33 N77-21315 *
US-PATENT-APPL-SN-385220 ..... c 36 N85-30305 *
US-PATENT-APPL-SN-385520 ..... c 14 N71-23037 *
US-PATENT-APPL-SN-385522 ..... c 34 N75-33342 *
US-PATENT-APPL-SN-385526 ..... c 12 N71-16031 *
US-PATENT-APPL-SN-385527 ..... c 31 N71-17729 *
US-PATENT-APPL-SN-385530 ..... c 09 N71-10798 *
US-PATENT-APPL-SN-386172 ..... c 24 N91-14430 *
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US-PATENT-APPL-SN-386175 ..... c 35 N89-28793 * #
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US-PATENT-APPL-SN-386790 ..... c 09 N75-12968 *
US-PATENT-APPL-SN-386793 ..... c 35 N75-25124 *
US-PATENT-APPL-SN-386800 ..... c 15 N71-21404 *
US-PATENT-APPL-SN-387094 ..... c 37 N77-19457 *
US-PATENT-APPL-SN-387095 ..... c 37 N75-33395 *
US-PATENT-APPL-SN-387266 ..... c 35 N75-27328 *
US-PATENT-APPL-SN-387332 ..... c 15 N70-33226 *
US-PATENT-APPL-SN-387342 ..... c 37 N76-18457 *
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US-PATENT-APPL-SN-387647 ..... c 33 N85-34333 *
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US-PATENT-APPL-SN-388264 ..... c 37 N91-14614 *
US-PATENT-APPL-SN-388966 ..... c 31 N70-41855 *
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US-PATENT-APPL-SN-390049 ..... c 37 N76-16446 * #
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US-PATENT-APPL-SN-390466 ..... c 24 N75-13032 *

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US-PATENT-APPL-SN-391896 ..... c 43 N91-32546 *
US-PATENT-APPL-SN-391911 ..... c 54 N91-14724 *
US-PATENT-APPL-SN-392092 ..... c 51 N84-28361 *
US-PATENT-APPL-SN-392093 ..... c 33 N88-23941 *
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US-PATENT-APPL-SN-392944 ..... c 76 N85-29800 *
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US-PATENT-APPL-SN-393526 ..... c 77 N75-20139 *
US-PATENT-APPL-SN-393527 ..... c 15 N75-13007 *
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US-PATENT-APPL-SN-403960 ..... c 14 N70-41366 *
US-PATENT-APPL-SN-404212 ..... c 14 N73-32324 *
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US-PATENT-APPL-SN-404291 ..... c 74 N91-21871 *
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US-PATENT-APPL-SN-405154 ..... c 37 N91-21539 *
US-PATENT-APPL-SN-405168 ..... c 70 N91-21824 *
US-PATENT-APPL-SN-405169 ..... c 33 N91-14538 *
US-PATENT-APPL-SN-405341 ..... c 37 N76-15460 *
US-PATENT-APPL-SN-405342 ..... c 35 N75-19615 *
US-PATENT-APPL-SN-405346 ..... c 37 N75-30562 *
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US-PATENT-APPL-SN-405630 ..... c 14 N71-10616 *
US-PATENT-APPL-SN-405632 ..... c 21 N71-15582 *
US-PATENT-APPL-SN-406097 ..... c 14 N71-21088 *
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US-PATENT-APPL-SN-406715 ..... c 35 N75-15014 *
US-PATENT-APPL-SN-406820 ..... c 74 N86-32266 *
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US-PATENT-APPL-SN-407323 ..... c 32 N75-21485 *
US-PATENT-APPL-SN-407595 ..... c 28 N70-41992 *
US-PATENT-APPL-SN-407599 ..... c 14 N71-21091 *
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US-PATENT-APPL-SN-408438 ..... c 07 N71-22750 *
US-PATENT-APPL-SN-408442 ..... c 10 N71-23662 *
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US-PATENT-APPL-SN-409126 ..... c 18 N71-21068 *
US-PATENT-APPL-SN-409678 ..... c 09 N84-27749 *
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US-PATENT-APPL-SN-409679 ..... c 33 N84-22884 *
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US-PATENT-APPL-SN-409990 ..... c 35 N75-27330 *
US-PATENT-APPL-SN-409991 ..... c 33 N75-13139 *
US-PATENT-APPL-SN-410325 ..... c 18 N71-23088 *
US-PATENT-APPL-SN-410326 ..... c 09 N71-21449 *
US-PATENT-APPL-SN-410330 ..... c 26 N71-23043 *
US-PATENT-APPL-SN-410331 ..... c 02 N70-41589 *
US-PATENT-APPL-SN-410332 ..... c 14 N71-23039 *
US-PATENT-APPL-SN-410572 ..... c 27 N90-15259 * #
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US-PATENT-APPL-SN-411572 ..... c 35 N75-15932 *
US-PATENT-APPL-SN-411944 ..... c 15 N70-41629 *
US-PATENT-APPL-SN-411945 ..... c 18 N71-23047 *
US-PATENT-APPL-SN-411949 ..... c 27 N71-15635 *
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US-PATENT-APPL-SN-412079 ..... c 37 N75-13266 *
US-PATENT-APPL-SN-412080 ..... c 36 N75-19653 *
US-PATENT-APPL-SN-412379 ..... c 32 N77-10392 *
US-PATENT-APPL-SN-413101 ..... c 07 N86-20389 *
US-PATENT-APPL-SN-41345 ..... c 09 N72-29172 *
US-PATENT-APPL-SN-41346 ..... c 15 N72-24522 *
US-PATENT-APPL-SN-41347 ..... c 09 N72-25256 *
US-PATENT-APPL-SN-41348 ..... c 09 N72-23173 *
US-PATENT-APPL-SN-413661 ..... c 15 N71-23024 *
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US-PATENT-APPL-SN-414042 ..... c 35 N79-17192 *
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US-PATENT-APPL-SN-414106 ..... c 54 N84-16803 *
US-PATENT-APPL-SN-414107 ..... c 35 N84-22932 *
US-PATENT-APPL-SN-414237 ..... c 35 N85-30282 *
US-PATENT-APPL-SN-41430 ..... c 10 N72-20221 *
US-PATENT-APPL-SN-41431 ..... c 37 N77-27400 *
US-PATENT-APPL-SN-414482 ..... c 10 N71-10578 *
US-PATENT-APPL-SN-41455 ..... c 02 N70-33255 *
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US-PATENT-APPL-SN-414812 ..... c 35 N90-17104 * #
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US-PATENT-APPL-SN-414816 ..... c 37 N91-14617 *
US-PATENT-APPL-SN-414820 ..... c 33 N90-17010 * #
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US-PATENT-APPL-SN-415878 ..... c 08 N86-27288 *
US-PATENT-APPL-SN-415879 ..... c 37 N85-21652 *
US-PATENT-APPL-SN-415880 ..... c 27 N84-27884 *
US-PATENT-APPL-SN-415960 ..... c 37 N85-20337 *
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US-PATENT-APPL-SN-416938 ..... c 11 N71-10746 *
US-PATENT-APPL-SN-416940 ..... c 21 N71-21708 *
US-PATENT-APPL-SN-416941 ..... c 31 N70-34159 *
US-PATENT-APPL-SN-416943 ..... c 14 N71-23269 *
US-PATENT-APPL-SN-416945 ..... c 10 N71-23543 *
US-PATENT-APPL-SN-416946 ..... c 28 N71-15563 *
US-PATENT-APPL-SN-417253 ..... c 11 N71-23042 *
US-PATENT-APPL-SN-418137 ..... c 16 N84-22601 *
US-PATENT-APPL-SN-418138 ..... c 16 N84-27784 *
US-PATENT-APPL-SN-418139 ..... c 24 N84-27829 *
US-PATENT-APPL-SN-418320 ..... c 03 N91-31113 *
US-PATENT-APPL-SN-418362 ..... c 14 N71-20741 *
US-PATENT-APPL-SN-418372 ..... c 27 N91-13562 * #
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US-PATENT-APPL-SN-418374 ..... c 35 N91-14591 *
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US-PATENT-APPL-SN-418612 ..... c 33 N91-14550 *
US-PATENT-APPL-SN-418931 ..... c 05 N70-42000 *
US-PATENT-APPL-SN-418933 ..... c 15 N71-23022 *
US-PATENT-APPL-SN-419319 ..... c 34 N76-17317 *
US-PATENT-APPL-SN-419554 ..... c 23 N91-25185 *
US-PATENT-APPL-SN-419747 ..... c 17 N76-21250 *
US-PATENT-APPL-SN-419748 ..... c 27 N76-14264 *
US-PATENT-APPL-SN-419831 ..... c 35 N75-21582 *
US-PATENT-APPL-SN-419831 ..... c 35 N77-17426 *
US-PATENT-APPL-SN-42022 ..... c 15 N70-35409 *
US-PATENT-APPL-SN-420245 ..... c 08 N71-22749 *
US-PATENT-APPL-SN-420250 ..... c 15 N71-23051 *
US-PATENT-APPL-SN-420424 ..... c 34 N75-26282 *
US-PATENT-APPL-SN-420466 ..... c 14 N71-23092 *
US-PATENT-APPL-SN-420813 ..... c 36 N75-32441 *
US-PATENT-APPL-SN-42088 ..... c 34 N78-17336 *
US-PATENT-APPL-SN-421702 ..... c 44 N75-32581 *
US-PATENT-APPL-SN-421702 ..... c 44 N76-23675 *
US-PATENT-APPL-SN-422092 ..... c 14 N71-22989 *
US-PATENT-APPL-SN-422095 ..... c 07 N71-10676 *
US-PATENT-APPL-SN-422096 ..... c 03 N71-29044 *
US-PATENT-APPL-SN-422097 ..... c 11 N71-21481 *
US-PATENT-APPL-SN-422098 ..... c 15 N71-22797 *
US-PATENT-APPL-SN-422099 ..... c 14 N71-22964 *
US-PATENT-APPL-SN-422726 ..... c 71 N91-27914 *
US-PATENT-APPL-SN-422864 ..... c 05 N69-21925 * #
US-PATENT-APPL-SN-422865 ..... c 31 N70-41631 *
US-PATENT-APPL-SN-422867 ..... c 15 N70-40062 *
US-PATENT-APPL-SN-422868 ..... c 15 N71-10617 *
US-PATENT-APPL-SN-422869 ..... c 14 N71-10779 *
US-PATENT-APPL-SN-423016 ..... c 36 N85-21631 *
US-PATENT-APPL-SN-423089 ..... c 37 N90-27114 * #
US-PATENT-APPL-SN-423412 ..... c 08 N71-22897 *
US-PATENT-APPL-SN-424013 ..... c 34 N76-27517 *
US-PATENT-APPL-SN-424038 ..... c 24 N75-30260 *
US-PATENT-APPL-SN-424153 ..... c 15 N71-21234 *
US-PATENT-APPL-SN-424156 ..... c 02 N71-23007 *
US-PATENT-APPL-SN-424157 ..... c 28 N70-41275 *
US-PATENT-APPL-SN-425096 ..... c 05 N71-23080 *
US-PATENT-APPL-SN-425201 ..... c 04 N86-19304 *
US-PATENT-APPL-SN-425202 ..... c 74 N85-34629 *
US-PATENT-APPL-SN-425203 ..... c 35 N84-22930 *
US-PATENT-APPL-SN-425204 ..... c 32 N85-29117 *
US-PATENT-APPL-SN-425205 ..... c 35 N85-21595 *
US-PATENT-APPL-SN-425362 ..... c 15 N71-10658 *
US-PATENT-APPL-SN-425363 ..... c 09 N71-20658 *
US-PATENT-APPL-SN-425364 ..... c 33 N71-15623 *
US-PATENT-APPL-SN-425365 ..... c 32 N71-21045 *
US-PATENT-APPL-SN-425972 ..... c 03 N71-23006 *
US-PATENT-APPL-SN-426155 ..... c 33 N75-15874 *
US-PATENT-APPL-SN-426345 ..... c 25 N90-15161 * #
US-PATENT-APPL-SN-426345 ..... c 25 N91-32196 *
US-PATENT-APPL-SN-426405 ..... c 25 N75-26043 *
US-PATENT-APPL-SN-426455 ..... c 28 N71-15661 *
US-PATENT-APPL-SN-426702 ..... c 15 N70-42034 *
US-PATENT-APPL-SN-427395 ..... c 54 N75-27760 *
US-PATENT-APPL-SN-427775 ..... c 27 N76-22376 *
US-PATENT-APPL-SN-427990 ..... c 06 N71-23527 *
US-PATENT-APPL-SN-428444 ..... c 44 N76-18642 *
US-PATENT-APPL-SN-428444 ..... c 44 N76-29704 *
US-PATENT-APPL-SN-428882 ..... c 31 N70-41948 *
US-PATENT-APPL-SN-428887 ..... c 33 N71-29051 *
US-PATENT-APPL-SN-428890 ..... c 02 N70-41630 *
US-PATENT-APPL-SN-428992 ..... c 34 N77-18382 *
US-PATENT-APPL-SN-428993 ..... c 45 N75-27585 *
US-PATENT-APPL-SN-428994 ..... c 32 N75-21486 *
US-PATENT-APPL-SN-428994 ..... c 32 N76-16249 *
US-PATENT-APPL-SN-428995 ..... c 51 N75-25503 *
US-PATENT-APPL-SN-429437 ..... c 35 N75-23910 *
US-PATENT-APPL-SN-429514 ..... c 24 N90-26881 * #
US-PATENT-APPL-SN-429516 ..... c 05 N90-15094 * #
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US-PATENT-APPL-SN-430192 ..... c 18 N71-27170 *
US-PATENT-APPL-SN-430226 ..... c 18 N71-23658 *
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US-PATENT-APPL-SN-430776 ..... c 03 N70-41954 *
US-PATENT-APPL-SN-430777 ..... c 18 N71-24184 *
US-PATENT-APPL-SN-430778 ..... c 03 N71-10728 *
US-PATENT-APPL-SN-430780 ..... c 03 N71-12260 *

US-PATENT-APPL-SN-431235 ..... c 15 N71-16052 *
US-PATENT-APPL-SN-431420 ..... c 37 N85-29282 *
US-PATENT-APPL-SN-431448 ..... c 37 N84-22957 *
US-PATENT-APPL-SN-431538 ..... c 18 N91-27200 *
US-PATENT-APPL-SN-431886 ..... c 18 N84-27787 *
US-PATENT-APPL-SN-432025 ..... c 15 N71-21531 *
US-PATENT-APPL-SN-432026 ..... c 07 N71-23405 *
US-PATENT-APPL-SN-432027 ..... c 21 N70-41930 *
US-PATENT-APPL-SN-432028 ..... c 15 N71-22723 *
US-PATENT-APPL-SN-432030 ..... c 12 N71-20896 *
US-PATENT-APPL-SN-432032 ..... c 15 N69-24322 * #
US-PATENT-APPL-SN-432057 ..... c 33 N84-14423 *
US-PATENT-APPL-SN-432433 ..... c 15 N71-22705 *
US-PATENT-APPL-SN-433196 ..... c 44 N84-23019 *
US-PATENT-APPL-SN-43327 ..... c 15 N72-26371 *
US-PATENT-APPL-SN-433598 ..... c 27 N84-22747 *
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US-PATENT-APPL-SN-434085 ..... c 33 N85-29145 *
US-PATENT-APPL-SN-434087 ..... c 27 N86-19457 *
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US-PATENT-APPL-SN-434148 ..... c 31 N71-24750 *
US-PATENT-APPL-SN-434672 ..... c 34 N84-14461 *
US-PATENT-APPL-SN-434674 ..... c 34 N83-35307 *
US-PATENT-APPL-SN-435387 ..... c 10 N70-42032 *
US-PATENT-APPL-SN-435433 ..... c 14 N71-30026 *
US-PATENT-APPL-SN-435511 ..... c 27 N84-27886 *
US-PATENT-APPL-SN-435756 ..... c 12 N71-16894 *
US-PATENT-APPL-SN-436313 ..... c 54 N77-32721 *
US-PATENT-APPL-SN-436315 ..... c 26 N75-19408 *
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US-PATENT-APPL-SN-438147 ..... c 75 N76-14931 *
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US-PATENT-APPL-SN-441896 ..... c 76 N90-20896 *
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US-PATENT-APPL-SN-443297 ..... c 33 N91-14539 *
US-PATENT-APPL-SN-443406 ..... c 25 N91-21270 *
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US-PATENT-APPL-SN-447124 ..... c 35 N75-30503 *
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US-PATENT-APPL-SN-457992 ..... c 35 N85-29212 *
US-PATENT-APPL-SN-458065 ..... c 37 N91-13731 * #
US-PATENT-APPL-SN-458258 ..... c 35 N91-21493 *
US-PATENT-APPL-SN-458274 ..... c 37 N91-21540 *
US-PATENT-APPL-SN-458280 ..... c 60 N90-27268 * #
US-PATENT-APPL-SN-458467 ..... c 76 N90-17454 * #
US-PATENT-APPL-SN-458476 ..... c 18 N91-13483 * #
US-PATENT-APPL-SN-458484 ..... c 44 N76-14595 *
US-PATENT-APPL-SN-459029 ..... c 37 N91-21544 *
US-PATENT-APPL-SN-459138 ..... c 14 N71-10773 *
US-PATENT-APPL-SN-459407 ..... c 14 N73-30391 *
US-PATENT-APPL-SN-459736 ..... c 33 N75-26245 *
US-PATENT-APPL-SN-459842 ..... c 35 N85-30281 *
US-PATENT-APPL-SN-460509 ..... c 37 N84-33807 *
US-PATENT-APPL-SN-460733 ..... c 37 N83-20154 * #
US-PATENT-APPL-SN-460876 ..... c 09 N69-21470 * #
US-PATENT-APPL-SN-460877 ..... c 33 N71-23085 *
US-PATENT-APPL-SN-461073 ..... c 33 N75-26246 *
US-PATENT-APPL-SN-461477 ..... c 37 N75-19686 *
US-PATENT-APPL-SN-461724 ..... c 31 N85-21404 *
US-PATENT-APPL-SN-461765 ..... c 17 N71-23046 *
US-PATENT-APPL-SN-461788 ..... c 27 N85-21349 *
US-PATENT-APPL-SN-462341 ..... c 44 N76-31666 *
US-PATENT-APPL-SN-462424 ..... c 24 N77-19171 *
US-PATENT-APPL-SN-462497 ..... c 25 N85-21279 *
US-PATENT-APPL-SN-462508 ..... c 35 N86-19580 *
US-PATENT-APPL-SN-462705 ..... c 37 N75-19684 *
US-PATENT-APPL-SN-462762 ..... c 12 N69-21466 * #
US-PATENT-APPL-SN-462763 ..... c 14 N71-22991 *
US-PATENT-APPL-SN-462844 ..... c 33 N75-19520 *
US-PATENT-APPL-SN-462903 ..... c 37 N76-14461 *
US-PATENT-APPL-SN-463456 ..... c 37 N85-30333 *
US-PATENT-APPL-SN-463720 ..... c 62 N91-32852 *
US-PATENT-APPL-SN-463925 ..... c 74 N76-30053 *
US-PATENT-APPL-SN-464720 ..... c 32 N76-16249 *
US-PATENT-APPL-SN-464721 ..... c 37 N75-26372 *
US-PATENT-APPL-SN-464722 ..... c 35 N76-22509 *
US-PATENT-APPL-SN-464723 ..... c 33 N75-30429 *
US-PATENT-APPL-SN-464878 ..... c 10 N71-22986 *
US-PATENT-APPL-SN-464879 ..... c 14 N71-21072 *
US-PATENT-APPL-SN-464880 ..... c 33 N71-21586 *
US-PATENT-APPL-SN-464885 ..... c 15 N71-22997 *
US-PATENT-APPL-SN-465363 ..... c 52 N84-28389 *
US-PATENT-APPL-SN-465364 ..... c 44 N85-20530 *
US-PATENT-APPL-SN-465365 ..... c 43 N86-19711 *
US-PATENT-APPL-SN-465366 ..... c 27 N85-20126 *
US-PATENT-APPL-SN-465367 ..... c 27 N84-22748 *
US-PATENT-APPL-SN-465369 ..... c 76 N86-28760 *
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US-PATENT-APPL-SN-466390 ..... c 28 N71-20330 *
US-PATENT-APPL-SN-466868 ..... c 22 N71-23599 *
US-PATENT-APPL-SN-466873 ..... c 17 N71-20743 *
US-PATENT-APPL-SN-466875 ..... c 08 N71-22707 *
US-PATENT-APPL-SN-467820 ..... c 28 N71-26779 *
US-PATENT-APPL-SN-468614 ..... c 60 N77-14751 *
US-PATENT-APPL-SN-468614 ..... c 60 N77-32731 *
US-PATENT-APPL-SN-468614 ..... c 60 N78-10709 *
US-PATENT-APPL-SN-468647 ..... c 21 N71-10771 *
US-PATENT-APPL-SN-468655 ..... c 15 N69-21471 * #
US-PATENT-APPL-SN-469011 ..... c 11 N69-21540 * #
US-PATENT-APPL-SN-469012 ..... c 25 N71-20747 *
US-PATENT-APPL-SN-469013 ..... c 14 N69-27423 * #
US-PATENT-APPL-SN-469371 ..... c 05 N86-19310 *
US-PATENT-APPL-SN-469864 ..... c 37 N86-19605 *
US-PATENT-APPL-SN-469866 ..... c 27 N84-22749 *
US-PATENT-APPL-SN-470113 ..... c 17 N87-16863 *
US-PATENT-APPL-SN-470114 ..... c 25 N83-24572 * #
US-PATENT-APPL-SN-470428 ..... c 33 N76-16332 *
US-PATENT-APPL-SN-470429 ..... c 33 N75-31329 *
US-PATENT-APPL-SN-470480 ..... c 20 N90-26073 * #
US-PATENT-APPL-SN-47061 ..... c 26 N72-25680 *
US-PATENT-APPL-SN-47062 ..... c 15 N72-17451 *
US-PATENT-APPL-SN-47063 ..... c 33 N72-25911 *
US-PATENT-APPL-SN-47063 ..... c 33 N73-25952 *
US-PATENT-APPL-SN-470663 ..... c 37 N91-21543 *
US-PATENT-APPL-SN-470665 ..... c 43 N91-14642 *
US-PATENT-APPL-SN-470902 ..... c 06 N71-28808 *
US-PATENT-APPL-SN-471154 ..... c 09 N73-28084 *
US-PATENT-APPL-SN-47120 ..... c 31 N70-33242 *
US-PATENT-APPL-SN-47121 ..... c 09 N70-39915 *
US-PATENT-APPL-SN-47122 ..... c 14 N70-34813 *
US-PATENT-APPL-SN-47123 ..... c 15 N70-34817 *
US-PATENT-APPL-SN-472066 ..... c 31 N70-42075 *
US-PATENT-APPL-SN-472372 ..... c 07 N71-20791 *
US-PATENT-APPL-SN-472643 ..... c 33 N79-21265 *
US-PATENT-APPL-SN-472747 ..... c 31 N71-16081 *
US-PATENT-APPL-SN-472775 ..... c 35 N75-33369 *
US-PATENT-APPL-SN-473024 ..... c 62 N90-27385 * #
US-PATENT-APPL-SN-473030 ..... c 37 N90-27116 * #
US-PATENT-APPL-SN-473064 ..... c 37 N90-27112 * #
US-PATENT-APPL-SN-473065 ..... c 34 N91-21473 *
US-PATENT-APPL-SN-473242 ..... c 34 N91-25380 *
US-PATENT-APPL-SN-473498 ..... c 20 N85-21256 *
US-PATENT-APPL-SN-473499 ..... c 74 N86-21348 *
US-PATENT-APPL-SN-473535 ..... c 31 N71-15637 *
US-PATENT-APPL-SN-473537 ..... c 08 N71-15908 *
US-PATENT-APPL-SN-473827 ..... c 35 N86-32698 *
US-PATENT-APPL-SN-473973 ..... c 02 N77-10001 *
US-PATENT-APPL-SN-47440 ..... c 07 N73-20174 *
US-PATENT-APPL-SN-47441 ..... c 09 N70-34559 * #
US-PATENT-APPL-SN-47443 ..... c 09 N72-17152 *
US-PATENT-APPL-SN-474531 ..... c 31 N71-23009 *
US-PATENT-APPL-SN-474744 ..... c 35 N76-14431 *
US-PATENT-APPL-SN-474745 ..... c 37 N76-14463 *
US-PATENT-APPL-SN-474815 ..... c 33 N79-21264 *
US-PATENT-APPL-SN-475299 ..... c 31 N71-17679 *
US-PATENT-APPL-SN-475336 ..... c 54 N75-27758 *
US-PATENT-APPL-SN-475337 ..... c 51 N76-29891 *
US-PATENT-APPL-SN-475338 ..... c 35 N76-15431 *
US-PATENT-APPL-SN-476244 ..... c 33 N84-22885 *
US-PATENT-APPL-SN-476759 ..... c 03 N70-42073 *
US-PATENT-APPL-SN-476761 ..... c 11 N71-10748 *
US-PATENT-APPL-SN-476763 ..... c 09 N69-21313 * #
US-PATENT-APPL-SN-477333 ..... c 28 N70-41922 *
US-PATENT-APPL-SN-478129 ..... c 25 N86-27431 *
US-PATENT-APPL-SN-478130 ..... c 74 N85-23396 *
US-PATENT-APPL-SN-478131 ..... c 26 N87-14482 *
US-PATENT-APPL-SN-478491 ..... c 14 N69-21363 * #
US-PATENT-APPL-SN-478800 ..... c 37 N76-19436 *
US-PATENT-APPL-SN-478802 ..... c 35 N75-29381 *
US-PATENT-APPL-SN-478803 ..... c 31 N76-14284 *
US-PATENT-APPL-SN-479353 ..... c 15 N71-23256 *
US-PATENT-APPL-SN-479357 ..... c 36 N77-19416 *
US-PATENT-APPL-SN-479485 ..... c 27 N90-26952 * #
US-PATENT-APPL-SN-480210 ..... c 11 N71-21474 *
US-PATENT-APPL-SN-480211 ..... c 14 N71-26135 *
US-PATENT-APPL-SN-480385 ..... c 74 N90-27487 * #
US-PATENT-APPL-SN-480449 ..... c 33 N90-27040 * #
US-PATENT-APPL-SN-480985 ..... c 18 N91-21222 *
US-PATENT-APPL-SN-481013 ..... c 60 N91-13888 * #
US-PATENT-APPL-SN-481020 ..... c 36 N83-29681 * #
US-PATENT-APPL-SN-481086 ..... c 33 N84-33660 *
US-PATENT-APPL-SN-481106 ..... c 09 N84-34448 *
US-PATENT-APPL-SN-481537 ..... c 18 N90-26861 * #
US-PATENT-APPL-SN-482104 ..... c 27 N76-22377 *
US-PATENT-APPL-SN-482105 ..... c 27 N76-23426 *
US-PATENT-APPL-SN-482307 ..... c 15 N71-21060 *
US-PATENT-APPL-SN-482311 ..... c 05 N71-22748 *
US-PATENT-APPL-SN-482313 ..... c 11 N69-24321 * #
US-PATENT-APPL-SN-482670 ..... c 14 N71-21007 *
US-PATENT-APPL-SN-482952 ..... c 09 N71-28926 *
US-PATENT-APPL-SN-482953 ..... c 74 N76-18913 *

US-PATENT-APPL-SN-482967 ..... c 34 N76-18364 *
US-PATENT-APPL-SN-483301 ..... c 36 N77-26477 *
US-PATENT-APPL-SN-483817 ..... c 27 N79-21190 *
US-PATENT-APPL-SN-483850 ..... c 37 N76-14460 *
US-PATENT-APPL-SN-483851 ..... c 35 N76-15435 *
US-PATENT-APPL-SN-483852 ..... c 33 N75-30430 *
US-PATENT-APPL-SN-483857 ..... c 44 N76-14601 *
US-PATENT-APPL-SN-483858 ..... c 35 N76-18400 *
US-PATENT-APPL-SN-483885 ..... c 04 N71-23185 *
US-PATENT-APPL-SN-483886 ..... c 09 N71-22988 *
US-PATENT-APPL-SN-483891 ..... c 14 N69-39982 * #
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US-PATENT-APPL-SN-484208 ..... c 35 N75-30502 *
US-PATENT-APPL-SN-484209 ..... c 35 N76-18403 *
US-PATENT-APPL-SN-484485 ..... c 01 N71-23497 *
US-PATENT-APPL-SN-484489 ..... c 10 N71-15909 *
US-PATENT-APPL-SN-484490 ..... c 24 N71-20518 *
US-PATENT-APPL-SN-484745 ..... c 35 N85-20295 *
US-PATENT-APPL-SN-484855 ..... c 09 N71-19480 *
US-PATENT-APPL-SN-485058 ..... c 06 N71-23500 *
US-PATENT-APPL-SN-485656 ..... c 28 N71-10574 *
US-PATENT-APPL-SN-485957 ..... c 25 N71-21694 *
US-PATENT-APPL-SN-485958 ..... c 15 N71-24047 *
US-PATENT-APPL-SN-485960 ..... c 15 N70-42017 *
US-PATENT-APPL-SN-48621 ..... c 20 N78-32179 *
US-PATENT-APPL-SN-486455 ..... c 35 N91-21495 *
US-PATENT-APPL-SN-486458 ..... c 37 N91-31655 *
US-PATENT-APPL-SN-486470 ..... c 44 N85-21768 *
US-PATENT-APPL-SN-486471 ..... c 33 N85-21492 *
US-PATENT-APPL-SN-486573 ..... c 10 N71-19469 *
US-PATENT-APPL-SN-486668 ..... c 24 N91-25199 *
US-PATENT-APPL-SN-486884 ..... c 15 N73-32362 *
US-PATENT-APPL-SN-487156 ..... c 44 N77-10636 *
US-PATENT-APPL-SN-487341 ..... c 14 N71-19431 *
US-PATENT-APPL-SN-487342 ..... c 09 N71-21583 *
US-PATENT-APPL-SN-487343 ..... c 03 N69-39890 * #
US-PATENT-APPL-SN-487344 ..... c 15 N69-21472 * #
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US-PATENT-APPL-SN-487852 ..... c 23 N76-15268 *
US-PATENT-APPL-SN-487929 ..... c 33 N74-20859 *
US-PATENT-APPL-SN-487934 ..... c 15 N71-21530 *
US-PATENT-APPL-SN-487939 ..... c 14 N71-23040 *
US-PATENT-APPL-SN-487940 ..... c 10 N71-26434 *
US-PATENT-APPL-SN-488381 ..... c 14 N73-32321 *
US-PATENT-APPL-SN-488578 ..... c 76 N90-27517 * #
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US-PATENT-APPL-SN-488745 ..... c 26 N75-27127 *
US-PATENT-APPL-SN-489008 ..... c 23 N75-30256 *
US-PATENT-APPL-SN-489009 ..... c 33 N76-19339 *
US-PATENT-APPL-SN-489442 ..... c 25 N69-39884 * #
US-PATENT-APPL-SN-489675 ..... c 05 N85-29947 *
US-PATENT-APPL-SN-489997 ..... c 35 N91-13691 * #
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US-PATENT-APPL-SN-491058 ..... c 09 N71-23443 *
US-PATENT-APPL-SN-491059 ..... c 09 N71-23015 *
US-PATENT-APPL-SN-491113 ..... c 35 N86-19581 *
US-PATENT-APPL-SN-491125 ..... c 27 N84-22750 *
US-PATENT-APPL-SN-491416 ..... c 35 N75-33368 *
US-PATENT-APPL-SN-491417 ..... c 37 N76-19437 *
US-PATENT-APPL-SN-491418 ..... c 31 N76-31365 *
US-PATENT-APPL-SN-491419 ..... c 32 N76-15330 *
US-PATENT-APPL-SN-491845 ..... c 28 N71-15659 *
US-PATENT-APPL-SN-492282 ..... c 27 N85-20124 *
US-PATENT-APPL-SN-492344 ..... c 05 N71-22896 *
US-PATENT-APPL-SN-492964 ..... c 25 N85-21280 *
US-PATENT-APPL-SN-493179 ..... c 23 N85-35227 *
US-PATENT-APPL-SN-493190 ..... c 43 N91-21621 *
US-PATENT-APPL-SN-493359 ..... c 20 N76-21275 *
US-PATENT-APPL-SN-493363 ..... c 33 N76-21390 *
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US-PATENT-APPL-SN-493864 ..... c 23 N90-20133 *
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US-PATENT-APPL-SN-493865 ..... c 24 N86-19380 *
US-PATENT-APPL-SN-493866 ..... c 71 N84-28568 *
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US-PATENT-APPL-SN-495022 ..... c 60 N77-12721 *
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US-PATENT-APPL-SN-496205 ..... c 14 N71-22965 *
US-PATENT-APPL-SN-496779 ..... c 05 N76-29217 *
US-PATENT-APPL-SN-498167 ..... c 03 N71-10608 *
US-PATENT-APPL-SN-498168 ..... c 28 N71-21822 *
US-PATENT-APPL-SN-499122 ..... c 15 N71-24164 *
US-PATENT-APPL-SN-499126 ..... c 23 N86-19376 *
US-PATENT-APPL-SN-500044 ..... c 35 N85-21597 *
US-PATENT-APPL-SN-500046 ..... c 31 N87-16918 *
US-PATENT-APPL-SN-500435 ..... c 14 N71-21082 *
US-PATENT-APPL-SN-500446 ..... c 10 N71-23029 *
US-PATENT-APPL-SN-500651 ..... c 07 N85-35195 *
US-PATENT-APPL-SN-500979 ..... c 32 N76-18295 *
US-PATENT-APPL-SN-500980 ..... c 72 N76-15860 *
US-PATENT-APPL-SN-500981 ..... c 35 N77-10492 *
US-PATENT-APPL-SN-500982 ..... c 75 N76-17951 *
US-PATENT-APPL-SN-501011 ..... c 33 N76-18345 *
US-PATENT-APPL-SN-501012 ..... c 33 N76-14373 *
US-PATENT-APPL-SN-501060 ..... c 60 N84-28491 *
US-PATENT-APPL-SN-501893 ..... c 34 N91-13668 * #
US-PATENT-APPL-SN-501908 ..... c 51 N90-27239 * #
US-PATENT-APPL-SN-501909 ..... c 34 N90-27072 * #
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US-PATENT-APPL-SN-50206 ..... c 07 N72-17109 *
US-PATENT-APPL-SN-50207 ..... c 07 N72-20141 *
US-PATENT-APPL-SN-50208 ..... c 14 N73-13418 *
US-PATENT-APPL-SN-502124 ..... c 35 N76-16393 *
US-PATENT-APPL-SN-502135 ..... c 35 N76-15433 *
US-PATENT-APPL-SN-502136 ..... c 35 N75-27331 *
US-PATENT-APPL-SN-502137 ..... c 37 N76-21554 *
US-PATENT-APPL-SN-502138 ..... c 43 N77-10584 *
US-PATENT-APPL-SN-502693 ..... c 15 N71-20739 *
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US-PATENT-APPL-SN-502709 ..... c 31 N71-21881 *
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US-PATENT-APPL-SN-502750 ..... c 09 N71-19466 *
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US-PATENT-APPL-SN-507624 ..... c 76 N85-30922 *
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US-PATENT-APPL-SN-507626 ..... c 34 N85-29179 *
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US-PATENT-APPL-SN-511887 ..... c 35 N76-15436 *
US-PATENT-APPL-SN-511894 ..... c 03 N76-32140 *
US-PATENT-APPL-SN-512352 ..... c 15 N70-33330 *
US-PATENT-APPL-SN-512509 ..... c 26 N75-27125 *
US-PATENT-APPL-SN-512559 ..... c 23 N71-22881 *
US-PATENT-APPL-SN-512561 ..... c 16 N71-25914 *
US-PATENT-APPL-SN-512562 ..... c 16 N71-24074 *
US-PATENT-APPL-SN-512795 ..... c 27 N84-22745 *
US-PATENT-APPL-SN-512825 ..... c 32 N76-15329 *
US-PATENT-APPL-SN-51317 ..... c 14 N73-30389 *
US-PATENT-APPL-SN-513346 ..... c 07 N79-14095 *
US-PATENT-APPL-SN-513389 ..... c 25 N75-12087 *
US-PATENT-APPL-SN-513576 ..... c 35 N76-29552 *
US-PATENT-APPL-SN-513611 ..... c 24 N76-22309 *
US-PATENT-APPL-SN-513611 ..... c 24 N80-33482 *
US-PATENT-APPL-SN-513612 ..... c 05 N77-17029 *
US-PATENT-APPL-SN-513613 ..... c 27 N78-15276 *
US-PATENT-APPL-SN-513690 ..... c 37 N76-20480 *
US-PATENT-APPL-SN-514117 ..... c 27 N86-19455 *
US-PATENT-APPL-SN-514407 ..... c 18 N71-22894 *
US-PATENT-APPL-SN-514546 ..... c 74 N76-20958 *
US-PATENT-APPL-SN-51473 ..... c 02 N70-33266 *
US-PATENT-APPL-SN-51477 ..... c 14 N72-25412 *
US-PATENT-APPL-SN-515484 ..... c 14 N71-22993 *
US-PATENT-APPL-SN-516087 ..... c 27 N85-20125 *
US-PATENT-APPL-SN-516150 ..... c 05 N71-19440 *
US-PATENT-APPL-SN-516151 ..... c 15 N70-41679 *
US-PATENT-APPL-SN-516152 ..... c 14 N71-23225 *
US-PATENT-APPL-SN-516153 ..... c 10 N71-28783 *
US-PATENT-APPL-SN-516154 ..... c 09 N69-24330 * #
US-PATENT-APPL-SN-516155 ..... c 09 N71-23270 *
US-PATENT-APPL-SN-516158 ..... c 09 N71-19479 *
US-PATENT-APPL-SN-516159 ..... c 14 N70-41812 *
US-PATENT-APPL-SN-516160 ..... c 33 N71-16277 *
US-PATENT-APPL-SN-516162 ..... c 07 N71-28900 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21350 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21351 *
US-PATENT-APPL-SN-516217 ..... c 27 N85-21352 *
US-PATENT-APPL-SN-516217 ..... c 25 N85-28982 *
US-PATENT-APPL-SN-516217 ..... c 25 N85-30039 *
US-PATENT-APPL-SN-516573 ..... c 18 N90-26858 * #
US-PATENT-APPL-SN-516793 ..... c 16 N71-22895 *
US-PATENT-APPL-SN-516794 ..... c 14 N70-42074 *
US-PATENT-APPL-SN-516856 ..... c 18 N91-21221 *
US-PATENT-APPL-SN-517100 ..... c 28 N70-33241 *
US-PATENT-APPL-SN-517114 ..... c 32 N90-27016 * #
US-PATENT-APPL-SN-517156 ..... c 14 N71-23093 *
US-PATENT-APPL-SN-517157 ..... c 15 N71-22722 *
US-PATENT-APPL-SN-517158 ..... c 14 N71-23401 *
US-PATENT-APPL-SN-517159 ..... c 15 N71-20740 *
US-PATENT-APPL-SN-517858 ..... c 14 N71-21006 *
US-PATENT-APPL-SN-517869 ..... c 15 N71-23050 *
US-PATENT-APPL-SN-517995 ..... c 39 N76-31562 *
US-PATENT-APPL-SN-518487 ..... c 05 N71-11190 *
US-PATENT-APPL-SN-518544 ..... c 44 N76-24696 *
US-PATENT-APPL-SN-518545 ..... c 19 N76-22284 *
US-PATENT-APPL-SN-518546 ..... c 26 N76-18257 *
US-PATENT-APPL-SN-518684 ..... c 44 N76-22657 *
US-PATENT-APPL-SN-518685 ..... c 35 N76-14429 *
US-PATENT-APPL-SN-519160 ..... c 18 N71-20742 *
US-PATENT-APPL-SN-519161 ..... c 05 N71-20718 *
US-PATENT-APPL-SN-519395 ..... c 09 N69-24317 * #
US-PATENT-APPL-SN-520838 ..... c 08 N71-18595 *
US-PATENT-APPL-SN-520839 ..... c 10 N71-19472 *
US-PATENT-APPL-SN-521006 ..... c 34 N77-10463 *
US-PATENT-APPL-SN-521601 ..... c 60 N76-14818 *
US-PATENT-APPL-SN-521602 ..... c 37 N76-18454 *
US-PATENT-APPL-SN-521603 ..... c 35 N75-29380 *
US-PATENT-APPL-SN-521620 ..... c 09 N77-10071 *
US-PATENT-APPL-SN-521753 ..... c 15 N70-41960 *
US-PATENT-APPL-SN-521754 ..... c 07 N71-22984 *
US-PATENT-APPL-SN-521755 ..... c 28 N71-28849 *
US-PATENT-APPL-SN-521816 ..... c 35 N77-19385 *
US-PATENT-APPL-SN-521817 ..... c 45 N76-21742 *
US-PATENT-APPL-SN-521994 ..... c 17 N71-23365 *
US-PATENT-APPL-SN-521996 ..... c 15 N69-27871 * #
US-PATENT-APPL-SN-521998 ..... c 07 N69-24323 * #
US-PATENT-APPL-SN-521999 ..... c 12 N71-20815 *
US-PATENT-APPL-SN-522109 ..... c 07 N78-17056 *
US-PATENT-APPL-SN-522551 ..... c 76 N76-20994 *
US-PATENT-APPL-SN-522552 ..... c 35 N76-16390 *
US-PATENT-APPL-SN-522556 ..... c 35 N76-15432 *
US-PATENT-APPL-SN-522629 ..... c 23 N90-20133 *
US-PATENT-APPL-SN-522629 ..... c 23 N90-23475 *
US-PATENT-APPL-SN-5226628 ..... c 08 N85-19985 *
US-PATENT-APPL-SN-522794 ..... c 09 N71-23190 *
US-PATENT-APPL-SN-522795 ..... c 20 N71-16281 *
US-PATENT-APPL-SN-522949 ..... c 37 N91-13724 * #
US-PATENT-APPL-SN-522971 ..... c 54 N76-24900 *
US-PATENT-APPL-SN-523297 ..... c 24 N85-21266 *
US-PATENT-APPL-SN-523297 ..... c 24 N85-35233 *
US-PATENT-APPL-SN-523511 ..... c 28 N71-20942 *
US-PATENT-APPL-SN-523559 ..... c 74 N85-29750 *
US-PATENT-APPL-SN-523560 ..... c 60 N86-21154 *
US-PATENT-APPL-SN-523632 ..... c 33 N78-17293 *
US-PATENT-APPL-SN-523675 ..... c 37 N91-21545 *
US-PATENT-APPL-SN-523692 ..... c 61 N90-27341 * #
US-PATENT-APPL-SN-523991 ..... c 35 N86-20751 *
US-PATENT-APPL-SN-524110 ..... c 37 N91-13729 * #
US-PATENT-APPL-SN-524746 ..... c 14 N73-28491 *
US-PATENT-APPL-SN-524959 ..... c 76 N90-27518 * #

US-PATENT-APPL-SN-526438 ..... c 25 N76-22323 *
US-PATENT-APPL-SN-526448 ..... c 44 N76-14602 *
US-PATENT-APPL-SN-526449 ..... c 54 N76-14804 *
US-PATENT-APPL-SN-526450 ..... c 35 N77-14409 *
US-PATENT-APPL-SN-526631 ..... c 10 N71-19471 *
US-PATENT-APPL-SN-526664 ..... c 07 N69-24334 * #
US-PATENT-APPL-SN-526665 ..... c 14 N69-24331 * #
US-PATENT-APPL-SN-526739 ..... c 37 N87-23970 *
US-PATENT-APPL-SN-526741 ..... c 09 N84-12193 * #
US-PATENT-APPL-SN-526750 ..... c 71 N85-22105 *
US-PATENT-APPL-SN-526768 ..... c 25 N85-35253 *
US-PATENT-APPL-SN-526770 ..... c 35 N85-21598 *
US-PATENT-APPL-SN-527331 ..... c 17 N73-28573 *
US-PATENT-APPL-SN-527462 ..... c 35 N90-26304 * #
US-PATENT-APPL-SN-527508 ..... c 37 N91-32514 *
US-PATENT-APPL-SN-527509 ..... c 74 N90-27488 * #
US-PATENT-APPL-SN-527613 ..... c 37 N86-19604 *
US-PATENT-APPL-SN-527727 ..... c 02 N76-16014 *
US-PATENT-APPL-SN-527728 ..... c 37 N76-18458 *
US-PATENT-APPL-SN-527790 ..... c 33 N76-14372 *
US-PATENT-APPL-SN-527914 ..... c 27 N86-21675 *
US-PATENT-APPL-SN-527918 ..... c 09 N85-21178 *
US-PATENT-APPL-SN-528031 ..... c 10 N69-39888 * #
US-PATENT-APPL-SN-529427 ..... c 54 N91-16566 * #
US-PATENT-APPL-SN-529593 ..... c 27 N71-21819 *
US-PATENT-APPL-SN-529594 ..... c 15 N69-27483 * #
US-PATENT-APPL-SN-529594 ..... c 33 N71-29152 *
US-PATENT-APPL-SN-529609 ..... c 09 N69-39986 * #
US-PATENT-APPL-SN-529803 ..... c 33 N86-20668 *
US-PATENT-APPL-SN-529884 ..... c 54 N78-18761 *
US-PATENT-APPL-SN-530185 ..... c 32 N86-20647 *
US-PATENT-APPL-SN-530339 ..... c 31 N86-19479 *
US-PATENT-APPL-SN-530958 ..... c 09 N71-22985 *
US-PATENT-APPL-SN-531372 ..... c 72 N91-27936 *
US-PATENT-APPL-SN-531373 ..... c 74 N91-14002 * #
US-PATENT-APPL-SN-531374 ..... c 37 N91-13734 * #
US-PATENT-APPL-SN-531375 ..... c 26 N90-26940 * #
US-PATENT-APPL-SN-531433 ..... c 35 N91-31608 *
US-PATENT-APPL-SN-531434 ..... c 34 N90-27070 * #
US-PATENT-APPL-SN-531565 ..... c 36 N76-24553 *
US-PATENT-APPL-SN-53156 ..... c 10 N71-28860 *
US-PATENT-APPL-SN-531572 ..... c 66 N76-19888 *
US-PATENT-APPL-SN-531575 ..... c 32 N76-31372 *
US-PATENT-APPL-SN-531642 ..... c 25 N71-21693 *
US-PATENT-APPL-SN-531647 ..... c 04 N76-20114 *
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US-PATENT-APPL-SN-532006 ..... c 23 N71-24857 *
US-PATENT-APPL-SN-532342 ..... c 08 N85-35200 *
US-PATENT-APPL-SN-532784 ..... c 27 N75-29263 * #
US-PATENT-APPL-SN-532784 ..... c 27 N78-17205 *
US-PATENT-APPL-SN-533555 ..... c 36 N76-18428 *
US-PATENT-APPL-SN-533556 ..... c 36 N76-29575 *
US-PATENT-APPL-SN-533608 ..... c 32 N76-21366 *
US-PATENT-APPL-SN-533650 ..... c 35 N75-27329 *
US-PATENT-APPL-SN-533659 ..... c 14 N73-30390 *
US-PATENT-APPL-SN-533734 ..... c 33 N77-10428 *
US-PATENT-APPL-SN-534265 ..... c 32 N76-21365 *
US-PATENT-APPL-SN-534266 ..... c 35 N76-24523 *
US-PATENT-APPL-SN-534295 ..... c 15 N71-21076 *
US-PATENT-APPL-SN-534564 ..... c 10 N71-22961 *
US-PATENT-APPL-SN-534901 ..... c 14 N70-36807 *
US-PATENT-APPL-SN-534931 ..... c 37 N80-14395 *
US-PATENT-APPL-SN-534966 ..... c 15 N71-24042 *
US-PATENT-APPL-SN-534975 ..... c 14 N71-24232 *
US-PATENT-APPL-SN-535169 ..... c 54 N78-17678 *
US-PATENT-APPL-SN-535304 ..... c 09 N71-28810 *
US-PATENT-APPL-SN-535410 ..... c 37 N76-15457 *
US-PATENT-APPL-SN-536210 ..... c 17 N71-24830 *
US-PATENT-APPL-SN-536216 ..... c 10 N71-23315 *
US-PATENT-APPL-SN-536217 ..... c 10 N71-23544 *
US-PATENT-APPL-SN-536535 ..... c 33 N76-14371 *
US-PATENT-APPL-SN-536761 ..... c 33 N76-19338 *
US-PATENT-APPL-SN-536762 ..... c 37 N76-22540 *
US-PATENT-APPL-SN-536785 ..... c 33 N76-31409 *
US-PATENT-APPL-SN-536786 ..... c 44 N77-32581 *
US-PATENT-APPL-SN-537024 ..... c 44 N76-27664 *
US-PATENT-APPL-SN-537480 ..... c 45 N76-31714 *
US-PATENT-APPL-SN-537614 ..... c 33 N86-20672 *
US-PATENT-APPL-SN-537615 ..... c 28 N71-22983 *
US-PATENT-APPL-SN-537615 ..... c 37 N85-33489 *
US-PATENT-APPL-SN-537616 ..... c 26 N85-29005 *
US-PATENT-APPL-SN-537617 ..... c 09 N71-22987 *
US-PATENT-APPL-SN-537757 ..... c 37 N86-20789 *
US-PATENT-APPL-SN-537979 ..... c 37 N77-11397 *
US-PATENT-APPL-SN-538047 ..... c 37 N76-27568 *
US-PATENT-APPL-SN-538063 ..... c 37 N86-19603 *
US-PATENT-APPL-SN-538166 ..... c 15 N71-21177 *
US-PATENT-APPL-SN-538168 ..... c 23 N71-16098 *
US-PATENT-APPL-SN-538863 ..... c 54 N78-17680 *
US-PATENT-APPL-SN-538905 ..... c 08 N71-18594 *
US-PATENT-APPL-SN-538907 ..... c 33 N71-28903 *
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US-PATENT-APPL-SN-538913 ..... c 14 N71-17627 *
US-PATENT-APPL-SN-538982 ..... c 33 N77-14333 *
US-PATENT-APPL-SN-538983 ..... c 33 N76-18353 *
US-PATENT-APPL-SN-539230 ..... c 37 N85-30335 *
US-PATENT-APPL-SN-539237 ..... c 33 N71-16278 *
US-PATENT-APPL-SN-539255 ..... c 18 N71-26153 *
US-PATENT-APPL-SN-539255 ..... c 17 N72-28536 *
US-PATENT-APPL-SN-540414 ..... c 15 N71-22799 *
US-PATENT-APPL-SN-540779 ..... c 33 N79-12331 *
US-PATENT-APPL-SN-540976 ..... c 32 N91-13598 * #
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US-PATENT-APPL-SN-542192 ..... c 26 N75-27126 *
US-PATENT-APPL-SN-542232 ..... c 33 N86-19516 *
US-PATENT-APPL-SN-542557 ..... c 44 N85-30474 *
US-PATENT-APPL-SN-54270 ..... c 07 N72-25173 *
US-PATENT-APPL-SN-542713 ..... c 23 N71-23976 *
US-PATENT-APPL-SN-54271 ..... c 02 N73-19004 *
US-PATENT-APPL-SN-542754 ..... c 34 N76-18374 *
US-PATENT-APPL-SN-543206 ..... c 05 N71-23159 *
US-PATENT-APPL-SN-543774 ..... c 06 N69-39733 * #
US-PATENT-APPL-SN-543915 ..... c 60 N90-26518 * #
US-PATENT-APPL-SN-543926 ..... c 37 N91-27562 *
US-PATENT-APPL-SN-544293 ..... c 32 N91-13594 * #
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US-PATENT-APPL-SN-544895 ..... c 07 N71-28809 *
US-PATENT-APPL-SN-544899 ..... c 09 N71-20569 *
US-PATENT-APPL-SN-545008 ..... c 89 N90-27595 * #
US-PATENT-APPL-SN-545014 ..... c 43 N90-26384 * #
US-PATENT-APPL-SN-545015 ..... c 37 N90-26339 * #
US-PATENT-APPL-SN-545019 ..... c 60 N90-26519 * #
US-PATENT-APPL-SN-545089 ..... c 89 N90-27594 * #
US-PATENT-APPL-SN-545170 ..... c 61 N90-27340 * #
US-PATENT-APPL-SN-545177 ..... c 74 N91-32922 *
US-PATENT-APPL-SN-545178 ..... c 37 N91-13733 * #
US-PATENT-APPL-SN-545220 ..... c 89 N91-14096 * #
US-PATENT-APPL-SN-545223 ..... c 03 N71-11056 *
US-PATENT-APPL-SN-545224 ..... c 15 N69-21362 * #
US-PATENT-APPL-SN-545228 ..... c 07 N69-39736 * #
US-PATENT-APPL-SN-545229 ..... c 03 N69-21469 * #
US-PATENT-APPL-SN-545235 ..... c 63 N91-13944 * #
US-PATENT-APPL-SN-545236 ..... c 31 N90-26176 * #
US-PATENT-APPL-SN-545282 ..... c 35 N76-24524 *
US-PATENT-APPL-SN-545283 ..... c 32 N77-12239 *
US-PATENT-APPL-SN-545284 ..... c 34 N76-27517 *
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US-PATENT-APPL-SN-546142 ..... c 09 N69-24329 * #
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US-PATENT-APPL-SN-547072 ..... c 15 N71-24043 *
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US-PATENT-APPL-SN-549860 ..... c 03 N71-19438 *
US-PATENT-APPL-SN-550088 ..... c 07 N71-24612 *
US-PATENT-APPL-SN-550681 ..... c 02 N87-16793 *
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US-PATENT-APPL-SN-551694 ..... c 31 N71-18611 *
US-PATENT-APPL-SN-551815 ..... c 02 N71-11038 *
US-PATENT-APPL-SN-551846 ..... c 03 N71-20492 *
US-PATENT-APPL-SN-551933 ..... c 33 N71-14032 *
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US-PATENT-APPL-SN-560908 ..... c 31 N91-27385 *
US-PATENT-APPL-SN-560924 ..... c 74 N91-25840 *
US-PATENT-APPL-SN-560926 ..... c 24 N91-13500 * #
US-PATENT-APPL-SN-560967 ..... c 15 N69-21922 * #
US-PATENT-APPL-SN-560968 ..... c 10 N71-24863 *
US-PATENT-APPL-SN-560969 ..... c 14 N71-15622 *
US-PATENT-APPL-SN-561020 ..... c 44 N76-23675 *
US-PATENT-APPL-SN-561223 ..... c 14 N71-20427 *
US-PATENT-APPL-SN-561369 ..... c 35 N84-33766 *
US-PATENT-APPL-SN-561429 ..... c 27 N85-21351 *
US-PATENT-APPL-SN-561431 ..... c 27 N85-21350 *
US-PATENT-APPL-SN-561432 ..... c 20 N86-26368 *
US-PATENT-APPL-SN-561433 ..... c 35 N86-20752 *
US-PATENT-APPL-SN-561434 ..... c 25 N85-30039 *
US-PATENT-APPL-SN-561435 ..... c 27 N85-21352 *
US-PATENT-APPL-SN-561764 ..... c 32 N77-10392 *
US-PATENT-APPL-SN-561956 ..... c 35 N77-17426 *
US-PATENT-APPL-SN-562095 ..... c 52 N91-13865 * #
US-PATENT-APPL-SN-562443 ..... c 09 N69-39734 * #
US-PATENT-APPL-SN-562444 ..... c 14 N71-22995 *
US-PATENT-APPL-SN-562445 ..... c 14 N71-23797 *
US-PATENT-APPL-SN-562499 ..... c 32 N77-31350 *
US-PATENT-APPL-SN-562558 ..... c 31 N79-21227 *
US-PATENT-APPL-SN-562933 ..... c 10 N71-24799 *
US-PATENT-APPL-SN-562934 ..... c 09 N69-21468 * #
US-PATENT-APPL-SN-562992 ..... c 27 N78-32261 *
US-PATENT-APPL-SN-563049 ..... c 17 N76-29347 *
US-PATENT-APPL-SN-563050 ..... c 37 N76-31524 *
US-PATENT-APPL-SN-563283 ..... c 35 N76-18401 *
US-PATENT-APPL-SN-563644 ..... c 15 N71-18613 *
US-PATENT-APPL-SN-563646 ..... c 05 N71-23096 *
US-PATENT-APPL-SN-563648 ..... c 15 N71-17803 *
US-PATENT-APPL-SN-563650 ..... c 25 N69-21929 * #
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US-PATENT-APPL-SN-563890 ..... c 35 N85-34373 *
US-PATENT-APPL-SN-564622 ..... c 37 N77-31497 *
US-PATENT-APPL-SN-564919 ..... c 09 N71-23316 *
US-PATENT-APPL-SN-565090 ..... c 05 N91-31140 *
US-PATENT-APPL-SN-565162 ..... c 35 N79-14348 *
US-PATENT-APPL-SN-565289 ..... c 38 N77-17495 *
US-PATENT-APPL-SN-565290 ..... c 17 N76-22245 *
US-PATENT-APPL-SN-565481 ..... c 09 N86-32447 *
US-PATENT-APPL-SN-566392 ..... c 14 N71-23175 *
US-PATENT-APPL-SN-566397 ..... c 05 N71-23161 *
US-PATENT-APPL-SN-566493 ..... c 44 N76-29701 *
US-PATENT-APPL-SN-566494 ..... c 32 N77-30309 *
US-PATENT-APPL-SN-566495 ..... c 33 N77-17351 *
US-PATENT-APPL-SN-566717 ..... c 14 N71-24233 *
US-PATENT-APPL-SN-567025 ..... c 27 N91-13558 * #
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US-PATENT-APPL-SN-567806 ..... c 06 N71-22975 *
US-PATENT-APPL-SN-56791 ..... c 10 N72-16172 *
US-PATENT-APPL-SN-568067 ..... c 31 N71-22968 *
US-PATENT-APPL-SN-568071 ..... c 14 N69-27461 * #
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US-PATENT-APPL-SN-568128 ..... c 27 N91-13560 * #
US-PATENT-APPL-SN-568129 ..... c 74 N91-13998 * #
US-PATENT-APPL-SN-568130 ..... c 44 N91-13796 * #
US-PATENT-APPL-SN-568160 ..... c 10 N71-18724 *
US-PATENT-APPL-SN-568346 ..... c 04 N69-27487 * #

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US-PATENT-APPL-SN-568354 ..... c 14 N71-22752 *
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US-PATENT-APPL-SN-568356 ..... c 14 N71-15599 *
US-PATENT-APPL-SN-568362 ..... c 03 N69-39983 * #
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US-PATENT-APPL-SN-568541 ..... c 27 N81-14077 *
US-PATENT-APPL-SN-568620 ..... c 10 N71-26626 *
US-PATENT-APPL-SN-568987 ..... c 10 N71-19547 *
US-PATENT-APPL-SN-569370 ..... c 43 N84-23012 * #
US-PATENT-APPL-SN-569372 ..... c 76 N85-33826 *
US-PATENT-APPL-SN-569925 ..... c 07 N77-17059 *
US-PATENT-APPL-SN-570093 ..... c 06 N71-17705 *
US-PATENT-APPL-SN-570095 ..... c 14 N71-23226 *
US-PATENT-APPL-SN-570097 ..... c 15 N69-23185 * #
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US-PATENT-APPL-SN-571058 ..... c 24 N91-27244 *
US-PATENT-APPL-SN-571059 ..... c 24 N91-13502 * #
US-PATENT-APPL-SN-571062 ..... c 37 N91-13732 * #
US-PATENT-APPL-SN-571458 ..... c 44 N77-10635 *
US-PATENT-APPL-SN-571459 ..... c 54 N78-14784 *
US-PATENT-APPL-SN-571613 ..... c 74 N86-20124 *
US-PATENT-APPL-SN-571614 ..... c 35 N86-20750 *
US-PATENT-APPL-SN-571615 ..... c 74 N87-14971 *
US-PATENT-APPL-SN-571616 ..... c 25 N86-19413 *
US-PATENT-APPL-SN-571617 ..... c 26 N85-35267 *
US-PATENT-APPL-SN-571687 ..... c 47 N91-15661 * #
US-PATENT-APPL-SN-571821 ..... c 20 N76-22296 *
US-PATENT-APPL-SN-57252 ..... c 14 N72-25414 *
US-PATENT-APPL-SN-57253 ..... c 18 N72-25541 *
US-PATENT-APPL-SN-572990 ..... c 37 N78-16369 *
US-PATENT-APPL-SN-572991 ..... c 51 N77-22794 *
US-PATENT-APPL-SN-573029 ..... c 07 N79-14097 *
US-PATENT-APPL-SN-573162 ..... c 37 N86-27630 *
US-PATENT-APPL-SN-573432 ..... c 14 N71-23790 *
US-PATENT-APPL-SN-57399 ..... c 03 N72-20034 *
US-PATENT-APPL-SN-574208 ..... c 37 N76-29590 *
US-PATENT-APPL-SN-574218 ..... c 52 N76-29895 *
US-PATENT-APPL-SN-574219 ..... c 35 N76-31490 *
US-PATENT-APPL-SN-574280 ..... c 15 N69-21460 * #
US-PATENT-APPL-SN-574282 ..... c 15 N69-23190 * #
US-PATENT-APPL-SN-574282 ..... c 15 N71-23025 *
US-PATENT-APPL-SN-574283 ..... c 14 N69-24257 * #
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US-PATENT-APPL-SN-574290 ..... c 14 N71-20439 *
US-PATENT-APPL-SN-575291 ..... c 33 N71-29151 *
US-PATENT-APPL-SN-575475 ..... c 05 N69-23192 * #
US-PATENT-APPL-SN-575694 ..... c 76 N91-14066 * #
US-PATENT-APPL-SN-575695 ..... c 35 N91-13684 * #
US-PATENT-APPL-SN-575697 ..... c 39 N91-13767 * #
US-PATENT-APPL-SN-575708 ..... c 76 N91-16815 * #
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US-PATENT-APPL-SN-576183 ..... c 09 N71-23525 *
US-PATENT-APPL-SN-576195 ..... c 14 N71-21079 *
US-PATENT-APPL-SN-576308 ..... c 07 N85-35194 *
US-PATENT-APPL-SN-576488 ..... c 44 N76-28635 *
US-PATENT-APPL-SN-576521 ..... c 09 N71-20864 *
US-PATENT-APPL-SN-576774 ..... c 60 N77-19760 *
US-PATENT-APPL-SN-576792 ..... c 14 N71-26136 *
US-PATENT-APPL-SN-576797 ..... c 09 N69-24318 * #
US-PATENT-APPL-SN-577114 ..... c 15 N69-24320 * #
US-PATENT-APPL-SN-577115 ..... c 15 N71-17647 *
US-PATENT-APPL-SN-577545 ..... c 08 N71-18693 *
US-PATENT-APPL-SN-577546 ..... c 31 N71-23008 *
US-PATENT-APPL-SN-577548 ..... c 09 N69-27422 * #
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US-PATENT-APPL-SN-577775 ..... c 14 N71-17574 *
US-PATENT-APPL-SN-577778 ..... c 03 N71-11050 *
US-PATENT-APPL-SN-578043 ..... c 24 N91-15333 * #
US-PATENT-APPL-SN-578240 ..... c 34 N77-18382 *
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US-PATENT-APPL-SN-578387 ..... c 06 N87-22678 *
US-PATENT-APPL-SN-578388 ..... c 06 N86-27280 *
US-PATENT-APPL-SN-578390 ..... c 44 N85-30475 *
US-PATENT-APPL-SN-578397 ..... c 20 N79-21124 *
US-PATENT-APPL-SN-578700 ..... c 43 N82-13465 *
US-PATENT-APPL-SN-578916 ..... c 14 N71-23036 *
US-PATENT-APPL-SN-578923 ..... c 15 N71-21403 *
US-PATENT-APPL-SN-578925 ..... c 23 N71-16355 *
US-PATENT-APPL-SN-578926 ..... c 06 N69-39936 * #
US-PATENT-APPL-SN-578928 ..... c 26 N71-21824 *
US-PATENT-APPL-SN-578931 ..... c 23 N71-21882 *
US-PATENT-APPL-SN-578932 ..... c 08 N71-12505 *
US-PATENT-APPL-SN-579121 ..... c 15 N71-29136 *
US-PATENT-APPL-SN-579300 ..... c 20 N79-21123 *
US-PATENT-APPL-SN-579375 ..... c 07 N77-14025 *
US-PATENT-APPL-SN-579376 ..... c 20 N79-21125 *
US-PATENT-APPL-SN-579989 ..... c 34 N77-32413 *
US-PATENT-APPL-SN-580365 ..... c 15 N71-23255 *
US-PATENT-APPL-SN-580397 ..... c 37 N87-21333 *
US-PATENT-APPL-SN-580419 ..... c 34 N85-33433 *
US-PATENT-APPL-SN-580573 ..... c 44 N85-34441 *
US-PATENT-APPL-SN-580574 ..... c 18 N84-22610 * #
US-PATENT-APPL-SN-58147 ..... c 28 N70-33356 *
US-PATENT-APPL-SN-581514 ..... c 70 N75-26789 * #
US-PATENT-APPL-SN-581750 ..... c 07 N78-17055 *
US-PATENT-APPL-SN-581751 ..... c 37 N78-10468 *
US-PATENT-APPL-SN-581843 ..... c 31 N79-21226 *
US-PATENT-APPL-SN-582171 ..... c 32 N71-16428 *
US-PATENT-APPL-SN-582213 ..... c 32 N74-22096 *
US-PATENT-APPL-SN-582318 ..... c 33 N76-27472 *
US-PATENT-APPL-SN-582492 ..... c 52 N85-30618 *
US-PATENT-APPL-SN-582494 ..... c 36 N84-25037 * #
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US-PATENT-APPL-SN-583056 ..... c 37 N78-17384 *
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US-PATENT-APPL-SN-583485 ..... c 33 N77-28385 *
US-PATENT-APPL-SN-583486 ..... c 33 N77-26386 *
US-PATENT-APPL-SN-583487 ..... c 52 N76-19785 *
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US-PATENT-APPL-SN-584066 ..... c 10 N71-20852 *
US-PATENT-APPL-SN-584067 ..... c 07 N71-12392 *
US-PATENT-APPL-SN-584070 ..... c 09 N69-27500 * #
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US-PATENT-APPL-SN-584072 ..... c 15 N69-39786 * #
US-PATENT-APPL-SN-584094 ..... c 26 N77-20201 *
US-PATENT-APPL-SN-584914 ..... c 54 N78-17679 *
US-PATENT-APPL-SN-585217 ..... c 54 N78-17677 *
US-PATENT-APPL-SN-585420 ..... c 35 N76-31489 *
US-PATENT-APPL-SN-585627 ..... c 52 N91-14709 *
US-PATENT-APPL-SN-585988 ..... c 33 N75-29318 *
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US-PATENT-APPL-SN-586325 ..... c 31 N71-24315 *
US-PATENT-APPL-SN-586329 ..... c 05 N71-24623 *
US-PATENT-APPL-SN-586330 ..... c 05 N71-12344 *
US-PATENT-APPL-SN-586369 ..... c 74 N91-15874 * #
US-PATENT-APPL-SN-587749 ..... c 60 N88-29310 *
US-PATENT-APPL-SN-587764 ..... c 18 N86-24729 *
US-PATENT-APPL-SN-587890 ..... c 25 N91-15368 * #
US-PATENT-APPL-SN-587919 ..... c 54 N91-13879 * #
US-PATENT-APPL-SN-587920 ..... c 71 N91-16707 * #
US-PATENT-APPL-SN-587921 ..... c 74 N91-13996 * #
US-PATENT-APPL-SN-587922 ..... c 61 N91-13911 * #
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US-PATENT-APPL-SN-588039 ..... c 18 N87-14373 *
US-PATENT-APPL-SN-588164 ..... c 31 N85-29082 *
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US-PATENT-APPL-SN-588651 ..... c 31 N71-24813 *
US-PATENT-APPL-SN-588671 ..... c 03 N71-23354 *
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US-PATENT-APPL-SN-589172 ..... c 27 N79-14214 *
US-PATENT-APPL-SN-589173 ..... c 32 N77-12240 *
US-PATENT-APPL-SN-589233 ..... c 33 N77-14335 *
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US-PATENT-APPL-SN-590925 ..... c 26 N86-32550 *
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US-PATENT-APPL-SN-591004 ..... c 07 N71-11266 *
US-PATENT-APPL-SN-591007 ..... c 16 N69-27491 * #
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US-PATENT-APPL-SN-591569 ..... c 37 N77-12402 *
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US-PATENT-APPL-SN-593594 ..... c 06 N71-11236 *
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US-PATENT-APPL-SN-594134 ..... c 74 N86-20125 *
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US-PATENT-APPL-SN-596105 ..... c 35 N91-15520 * #
US-PATENT-APPL-SN-596133 ..... c 74 N91-25841 *
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US-PATENT-APPL-SN-60536 ..... c 02 N70-38009 *
US-PATENT-APPL-SN-605518 ..... c 15 N71-23023 *
US-PATENT-APPL-SN-605964 ..... c 06 N73-30103 *
US-PATENT-APPL-SN-605994 ..... c 06 N73-30101 *
US-PATENT-APPL-SN-606027 ..... c 06 N73-30099 *
US-PATENT-APPL-SN-606036 ..... c 06 N73-30100 *
US-PATENT-APPL-SN-606426 ..... c 74 N86-29650 * #
US-PATENT-APPL-SN-606431 ..... c 37 N86-25791 *
US-PATENT-APPL-SN-606432 ..... c 74 N87-21679 *
US-PATENT-APPL-SN-606462 ..... c 08 N71-24891 *
US-PATENT-APPL-SN-606463 ..... c 14 N71-24864 *
US-PATENT-APPL-SN-606464 ..... c 15 N71-18579 *
US-PATENT-APPL-SN-606891 ..... c 44 N77-14581 *
US-PATENT-APPL-SN-606988 ..... c 35 N91-15519 * #
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US-PATENT-APPL-SN-607484 ..... c 09 N71-26002 *
US-PATENT-APPL-SN-607608 ..... c 14 N69-27484 * #
US-PATENT-APPL-SN-607969 ..... c 09 N76-23273 *
US-PATENT-APPL-SN-608247 ..... c 15 N71-20813 *
US-PATENT-APPL-SN-608452 ..... c 74 N91-24878 * #
US-PATENT-APPL-SN-608482 ..... c 74 N77-20882 *

US-PATENT-APPL-SN-608483 ..... c 09 N77-19076 *
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US-PATENT-APPL-SN-608657 ..... c 37 N91-31656 *
US-PATENT-APPL-SN-608741 ..... c 23 N85-28973 *
US-PATENT-APPL-SN-60876 ..... c 15 N72-27485 *
US-PATENT-APPL-SN-60881 ..... c 32 N72-25877 *
US-PATENT-APPL-SN-60882 ..... c 05 N73-32011 *
US-PATENT-APPL-SN-60883 ..... c 10 N73-13235 *
US-PATENT-APPL-SN-608944 ..... c 15 N71-23798 *
US-PATENT-APPL-SN-60950 ..... c 04 N73-27052 *
US-PATENT-APPL-SN-610723 ..... c 14 N71-23755 *
US-PATENT-APPL-SN-610724 ..... c 31 N71-28851 *
US-PATENT-APPL-SN-610728 ..... c 31 N71-22969 *
US-PATENT-APPL-SN-610801 ..... c 76 N77-32919 *
US-PATENT-APPL-SN-610802 ..... c 35 N77-20400 *
US-PATENT-APPL-SN-610883 ..... c 27 N91-16152 * #
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US-PATENT-APPL-SN-611414 ..... c 46 N74-23069 *
US-PATENT-APPL-SN-612265 ..... c 14 N72-22442 *
US-PATENT-APPL-SN-612568 ..... c 15 N71-28952 *
US-PATENT-APPL-SN-612740 ..... c 25 N71-20563 *
US-PATENT-APPL-SN-612899 ..... c 07 N77-18154 *
US-PATENT-APPL-SN-612964 ..... c 20 N77-10148 *
US-PATENT-APPL-SN-612965 ..... c 52 N77-14735 *
US-PATENT-APPL-SN-612966 ..... c 35 N78-12390 *
US-PATENT-APPL-SN-612967 ..... c 74 N77-18893 *
US-PATENT-APPL-SN-613004 ..... c 71 N77-26919 *
US-PATENT-APPL-SN-613046 ..... c 24 N91-15334 * #
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US-PATENT-APPL-SN-613140 ..... c 33 N86-20669 *
US-PATENT-APPL-SN-613235 ..... c 14 N73-30394 *
US-PATENT-APPL-SN-61329 ..... c 31 N70-37986 *
US-PATENT-APPL-SN-613734 ..... c 52 N77-14738 *
US-PATENT-APPL-SN-613979 ..... c 33 N71-14035 *
US-PATENT-APPL-SN-615030 ..... c 35 N78-19465 *
US-PATENT-APPL-SN-61535 ..... c 15 N72-25453 *
US-PATENT-APPL-SN-615505 ..... c 34 N85-29180 *
US-PATENT-APPL-SN-615668 ..... c 63 N91-23783 * #
US-PATENT-APPL-SN-616002 ..... c 34 N86-27593 *
US-PATENT-APPL-SN-616332 ..... c 24 N77-27188 *
US-PATENT-APPL-SN-616333 ..... c 33 N76-32457 *
US-PATENT-APPL-SN-616472 ..... c 74 N77-22951 *
US-PATENT-APPL-SN-616528 ..... c 24 N80-33482 *
US-PATENT-APPL-SN-617021 ..... c 23 N71-16101 *
US-PATENT-APPL-SN-617022 ..... c 07 N69-27462 * #
US-PATENT-APPL-SN-617202 ..... c 74 N77-28933 *
US-PATENT-APPL-SN-617612 ..... c 52 N77-10780 *
US-PATENT-APPL-SN-617770 ..... c 14 N71-23267 *
US-PATENT-APPL-SN-617774 ..... c 18 N71-16124 *
US-PATENT-APPL-SN-617775 ..... c 06 N71-28807 *
US-PATENT-APPL-SN-617776 ..... c 18 N69-39895 * #
US-PATENT-APPL-SN-617778 ..... c 14 N71-26244 *
US-PATENT-APPL-SN-617779 ..... c 09 N69-39929 * #
US-PATENT-APPL-SN-617783 ..... c 15 N69-24266 * #
US-PATENT-APPL-SN-617871 ..... c 27 N85-29043 *
US-PATENT-APPL-SN-617895 ..... c 32 N77-14292 *
US-PATENT-APPL-SN-618594 ..... c 37 N77-13418 *
US-PATENT-APPL-SN-618790 ..... c 47 N91-23662 * #
US-PATENT-APPL-SN-618854 ..... c 27 N91-24426 * #
US-PATENT-APPL-SN-61894 ..... c 12 N72-21310 *
US-PATENT-APPL-SN-61895 ..... c 07 N72-33146 *
US-PATENT-APPL-SN-618969 ..... c 05 N71-26333 *
US-PATENT-APPL-SN-619519 ..... c 32 N71-16106 *
US-PATENT-APPL-SN-619520 ..... c 05 N69-21380 * #
US-PATENT-APPL-SN-619521 ..... c 06 N69-39889 * #
US-PATENT-APPL-SN-619903 ..... c 15 N69-27505 * #
US-PATENT-APPL-SN-619907 ..... c 09 N69-21543 * #
US-PATENT-APPL-SN-619908 ..... c 08 N71-20571 *
US-PATENT-APPL-SN-619986 ..... c 37 N75-32465 * #
US-PATENT-APPL-SN-620675 ..... c 35 N78-19466 *
US-PATENT-APPL-SN-621098 ..... c 09 N71-20446 *
US-PATENT-APPL-SN-621144 ..... c 02 N91-16999 * #
US-PATENT-APPL-SN-621714 ..... c 15 N71-19569 *
US-PATENT-APPL-SN-621715 ..... c 05 N71-11207 *
US-PATENT-APPL-SN-621742 ..... c 28 N71-23968 *
US-PATENT-APPL-SN-623156 ..... c 04 N77-19056 *
US-PATENT-APPL-SN-623187 ..... c 34 N77-19353 *
US-PATENT-APPL-SN-623188 ..... c 54 N77-21844 *
US-PATENT-APPL-SN-623238 ..... c 51 N77-25769 *
US-PATENT-APPL-SN-623389 ..... c 31 N81-15154 *
US-PATENT-APPL-SN-623536 ..... c 09 N78-18083 *
US-PATENT-APPL-SN-625077 ..... c 44 N86-25874 *
US-PATENT-APPL-SN-625344 ..... c 34 N91-17340 * #
US-PATENT-APPL-SN-625345 ..... c 51 N91-17531 * #
US-PATENT-APPL-SN-625436 ..... c 33 N90-20320 *
US-PATENT-APPL-SN-625732 ..... c 35 N77-18417 *
US-PATENT-APPL-SN-625733 ..... c 26 N77-28265 *
US-PATENT-APPL-SN-625734 ..... c 35 N78-10428 *
US-PATENT-APPL-SN-625759 ..... c 37 N77-14478 *
US-PATENT-APPL-SN-625781 ..... c 33 N77-31404 *
US-PATENT-APPL-SN-626376 ..... c 05 N71-11189 *
US-PATENT-APPL-SN-626942 ..... c 51 N77-27677 *
US-PATENT-APPL-SN-627257 ..... c 08 N71-12504 *
US-PATENT-APPL-SN-627537 ..... c 71 N88-24241 *
US-PATENT-APPL-SN-627599 ..... c 18 N71-16046 *
US-PATENT-APPL-SN-628062 ..... c 25 N91-28321 * #
US-PATENT-APPL-SN-628094 ..... c 16 N71-20400 *
US-PATENT-APPL-SN-628221 ..... c 07 N78-18066 *
US-PATENT-APPL-SN-628246 ..... c 15 N71-17687 *
US-PATENT-APPL-SN-628247 ..... c 09 N69-21542 * #
US-PATENT-APPL-SN-628248 ..... c 14 N69-27432 * #
US-PATENT-APPL-SN-628529 ..... c 37 N91-17401 * #
US-PATENT-APPL-SN-628866 ..... c 31 N85-20153 *
US-PATENT-APPL-SN-629456 ..... c 37 N77-14479 *
US-PATENT-APPL-SN-629457 ..... c 35 N77-32454 *
US-PATENT-APPL-SN-629458 ..... c 35 N78-17357 *
US-PATENT-APPL-SN-629740 ..... c 29 N91-17250 * #
US-PATENT-APPL-SN-629759 ..... c 15 N71-16076 *
US-PATENT-APPL-SN-630579 ..... c 35 N77-24454 *
US-PATENT-APPL-SN-630583 ..... c 33 N77-24375 *
US-PATENT-APPL-SN-631341 ..... c 60 N78-17691 *
US-PATENT-APPL-SN-63144 ..... c 16 N72-28521 *
US-PATENT-APPL-SN-631848 ..... c 09 N71-12514 *
US-PATENT-APPL-SN-63195 ..... c 14 N72-27408 *
US-PATENT-APPL-SN-632104 ..... c 09 N71-19470 *
US-PATENT-APPL-SN-632111 ..... c 37 N79-10422 *
US-PATENT-APPL-SN-632112 ..... c 35 N77-22449 *
US-PATENT-APPL-SN-632152 ..... c 10 N71-24798 *
US-PATENT-APPL-SN-632154 ..... c 09 N69-39984 * #
US-PATENT-APPL-SN-632162 ..... c 14 N69-39937 * #
US-PATENT-APPL-SN-632163 ..... c 30 N71-23723 *
US-PATENT-APPL-SN-632164 ..... c 15 N69-24319 * #
US-PATENT-APPL-SN-632165 ..... c 14 N71-26266 *
US-PATENT-APPL-SN-633178 ..... c 25 N84-32447 * #
US-PATENT-APPL-SN-633179 ..... c 34 N86-12547 *
US-PATENT-APPL-SN-633180 ..... c 09 N89-25242 *
US-PATENT-APPL-SN-633363 ..... c 25 N86-25428 *
US-PATENT-APPL-SN-633746 ..... c 74 N91-23890 * #
US-PATENT-APPL-SN-63383 ..... c 08 N72-20177 *
US-PATENT-APPL-SN-63384 ..... c 05 N72-22093 *
US-PATENT-APPL-SN-633876 ..... c 27 N78-19302 *
US-PATENT-APPL-SN-633877 ..... c 27 N77-13217 *
US-PATENT-APPL-SN-634038 ..... c 25 N71-16073 *
US-PATENT-APPL-SN-634040 ..... c 15 N71-19489 *
US-PATENT-APPL-SN-634060 ..... c 09 N69-39897 * #
US-PATENT-APPL-SN-634205 ..... c 35 N77-14406 *
US-PATENT-APPL-SN-634214 ..... c 73 N78-28913 *
US-PATENT-APPL-SN-634304 ..... c 27 N79-18052 *
US-PATENT-APPL-SN-635325 ..... c 14 N69-27431 * #
US-PATENT-APPL-SN-635326 ..... c 14 N71-18482 *
US-PATENT-APPL-SN-635327 ..... c 12 N69-39988 * #
US-PATENT-APPL-SN-635328 ..... c 09 N69-21467 * #
US-PATENT-APPL-SN-63532 ..... c 08 N72-25209 *
US-PATENT-APPL-SN-635519 ..... c 35 N77-24455 *
US-PATENT-APPL-SN-635531 ..... c 33 N77-14334 *
US-PATENT-APPL-SN-635970 ..... c 15 N69-21465 * #
US-PATENT-APPL-SN-635972 ..... c 18 N71-23710 *
US-PATENT-APPL-SN-63610 ..... c 06 N72-25147 *
US-PATENT-APPL-SN-636193 ..... c 74 N78-15880 *
US-PATENT-APPL-SN-636459 ..... c 44 N87-21410 *
US-PATENT-APPL-SN-636463 ..... c 20 N87-16875 *
US-PATENT-APPL-SN-636465 ..... c 37 N85-29284 *
US-PATENT-APPL-SN-636531 ..... c 37 N91-23490 * #
US-PATENT-APPL-SN-636532 ..... c 37 N91-21525 * #
US-PATENT-APPL-SN-636796 ..... c 35 N78-17358 *
US-PATENT-APPL-SN-636878 ..... c 14 N71-20442 *
US-PATENT-APPL-SN-637247 ..... c 35 N77-10493 *
US-PATENT-APPL-SN-637249 ..... c 38 N76-28563 *
US-PATENT-APPL-SN-637268 ..... c 47 N77-10753 *
US-PATENT-APPL-SN-637269 ..... c 52 N77-28717 *
US-PATENT-APPL-SN-637882 ..... c 15 N71-17650 *
US-PATENT-APPL-SN-638192 ..... c 10 N71-26415 *
US-PATENT-APPL-SN-638194 ..... c 33 N71-21507 *
US-PATENT-APPL-SN-638541 ..... c 33 N86-20671 *
US-PATENT-APPL-SN-638584 ..... c 33 N86-20670 *
US-PATENT-APPL-SN-638586 ..... c 32 N87-21207 *
US-PATENT-APPL-SN-638600 ..... c 25 N91-24362 * #
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US-PATENT-APPL-SN-640447 ..... c 15 N71-19486 *
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US-PATENT-APPL-SN-640452 ..... c 09 N71-12513 *
US-PATENT-APPL-SN-640453 ..... c 23 N71-16099 *
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US-PATENT-APPL-SN-640456 ..... c 03 N71-26726 *
US-PATENT-APPL-SN-640457 ..... c 03 N71-11052 *
US-PATENT-APPL-SN-640458 ..... c 15 N71-23811 *
US-PATENT-APPL-SN-640459 ..... c 10 N71-18723 *
US-PATENT-APPL-SN-640460 ..... c 14 N69-21541 * #
US-PATENT-APPL-SN-640462 ..... c 15 N71-20443 *
US-PATENT-APPL-SN-640712 ..... c 24 N85-35233 *
US-PATENT-APPL-SN-640775 ..... c 35 N91-23462 * #
US-PATENT-APPL-SN-640781 ..... c 03 N69-25146 * #
US-PATENT-APPL-SN-640783 ..... c 09 N71-26000 *
US-PATENT-APPL-SN-640784 ..... c 15 N69-39935 * #
US-PATENT-APPL-SN-640785 ..... c 09 N69-24333 * #
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US-PATENT-APPL-SN-641143 ..... c 27 N85-34280 *
US-PATENT-APPL-SN-641146 ..... c 76 N87-13313 *
US-PATENT-APPL-SN-641147 ..... c 27 N87-23751 *
US-PATENT-APPL-SN-641152 ..... c 23 N87-28605 *
US-PATENT-APPL-SN-641152 ..... c 23 N90-20133 *
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US-PATENT-APPL-SN-641441 ..... c 08 N71-18751 *
US-PATENT-APPL-SN-641784 ..... c 37 N77-32499 *
US-PATENT-APPL-SN-641802 ..... c 34 N77-30399 *
US-PATENT-APPL-SN-641803 ..... c 35 N78-18391 *
US-PATENT-APPL-SN-64224 ..... c 17 N70-38490 *
US-PATENT-APPL-SN-64226 ..... c 17 N70-38198 *
US-PATENT-APPL-SN-642310 ..... c 44 N86-19721 *
US-PATENT-APPL-SN-642602 ..... c 54 N86-29507 * #
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US-PATENT-APPL-SN-643522 ..... c 16 N86-26352 *
US-PATENT-APPL-SN-643524 ..... c 27 N86-29039 *
US-PATENT-APPL-SN-643589 ..... c 27 N86-31727 *
US-PATENT-APPL-SN-643897 ..... c 73 N78-32848 *
US-PATENT-APPL-SN-64391 ..... c 31 N72-25842 *
US-PATENT-APPL-SN-644444 ..... c 09 N71-18721 *
US-PATENT-APPL-SN-644446 ..... c 14 N71-24693 *
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US-PATENT-APPL-SN-644448 ..... c 17 N69-25147 * #
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US-PATENT-APPL-SN-645510 ..... c 32 N77-30308 *
US-PATENT-APPL-SN-645563 ..... c 31 N71-20396 *
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US-PATENT-APPL-SN-645573 ..... c 24 N71-25555 *
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US-PATENT-APPL-SN-646124 ..... c 15 N71-23817 *
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US-PATENT-APPL-SN-646704 ..... c 36 N77-25499 *
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US-PATENT-APPL-SN-64723 ..... c 07 N72-25170 *
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US-PATENT-APPL-SN-649360 ..... c 23 N71-16365 *
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US-PATENT-APPL-SN-651007 ..... c 74 N78-17865 *
US-PATENT-APPL-SN-651009 ..... c 26 N78-18182 *
US-PATENT-APPL-SN-651627 ..... c 26 N72-25679 *
US-PATENT-APPL-SN-651972 ..... c 27 N74-23125 *
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US-PATENT-APPL-SN-658956 ..... c 15 N71-15607 *
US-PATENT-APPL-SN-658957 ..... c 14 N71-17584 *
US-PATENT-APPL-SN-658964 ..... c 19 N71-26674 *
US-PATENT-APPL-SN-658999 ..... c 44 N82-24645 *
US-PATENT-APPL-SN-659474 ..... c 35 N86-26595 *
US-PATENT-APPL-SN-659475 ..... c 31 N86-32587 *
US-PATENT-APPL-SN-659882 ..... c 37 N78-13436 *
US-PATENT-APPL-SN-66004 ..... c 15 N72-25450 *
US-PATENT-APPL-SN-660571 ..... c 26 N71-23654 *
US-PATENT-APPL-SN-660572 ..... c 15 N71-15571 *
US-PATENT-APPL-SN-660573 ..... c 15 N71-28936 *
US-PATENT-APPL-SN-660755 ..... c 37 N91-23493 * #
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US-PATENT-APPL-SN-660842 ..... c 14 N71-23726 *
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US-PATENT-APPL-SN-6610 ..... c 15 N72-22492 *
US-PATENT-APPL-SN-661170 ..... c 14 N71-24809 *
US-PATENT-APPL-SN-661481 ..... c 26 N88-14179 *
US-PATENT-APPL-SN-6615 ..... c 03 N72-25019 *
US-PATENT-APPL-SN-6616 ..... c 03 N72-22042 *
US-PATENT-APPL-SN-6617 ..... c 15 N72-22488 *
US-PATENT-APPL-SN-66206 ..... c 11 N73-13257 *
US-PATENT-APPL-SN-662175 ..... c 09 N77-27131 *
US-PATENT-APPL-SN-662176 ..... c 32 N77-21267 *
US-PATENT-APPL-SN-662181 ..... c 25 N82-21269 *
US-PATENT-APPL-SN-662182 ..... c 37 N78-27424 *
US-PATENT-APPL-SN-662182 ..... c 35 N79-26372 *
US-PATENT-APPL-SN-662684 ..... c 27 N91-26376 * #
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US-PATENT-APPL-SN-662828 ..... c 11 N71-18578 *
US-PATENT-APPL-SN-662829 ..... c 15 N71-15597 *
US-PATENT-APPL-SN-663008 ..... c 37 N77-28486 *
US-PATENT-APPL-SN-663180 ..... c 10 N71-23663 *
US-PATENT-APPL-SN-663840 ..... c 27 N86-20561 *
US-PATENT-APPL-SN-664091 ..... c 43 N79-17288 *
US-PATENT-APPL-SN-665032 ..... c 74 N77-22950 *
US-PATENT-APPL-SN-665033 ..... c 20 N77-20162 *
US-PATENT-APPL-SN-665209 ..... c 14 N71-23725 *
US-PATENT-APPL-SN-665509 ..... c 74 N91-32923 * #
US-PATENT-APPL-SN-665676 ..... c 14 N71-19568 *
US-PATENT-APPL-SN-665679 ..... c 15 N71-20395 *
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US-PATENT-APPL-SN-665681 ..... c 15 N71-18616 *
US-PATENT-APPL-SN-665734 ..... c 35 N78-18390 *
US-PATENT-APPL-SN-666536 ..... c 33 N91-28490 * #
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US-PATENT-APPL-SN-666553 ..... c 03 N71-11055 *
US-PATENT-APPL-SN-666554 ..... c 33 N71-16104 *
US-PATENT-APPL-SN-666555 ..... c 07 N71-24614 *
US-PATENT-APPL-SN-666992 ..... c 27 N77-30236 *
US-PATENT-APPL-SN-667010 ..... c 34 N77-27345 *
US-PATENT-APPL-SN-667625 ..... c 31 N71-15674 *
US-PATENT-APPL-SN-667636 ..... c 03 N71-20491 *
US-PATENT-APPL-SN-667637 ..... c 28 N71-14044 *
US-PATENT-APPL-SN-667928 ..... c 35 N77-30436 *
US-PATENT-APPL-SN-667929 ..... c 35 N79-14346 *
US-PATENT-APPL-SN-667930 ..... c 32 N77-28346 *
US-PATENT-APPL-SN-668116 ..... c 35 N76-16391 *
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US-PATENT-APPL-SN-668241 ..... c 15 N71-17685 *
US-PATENT-APPL-SN-668242 ..... c 10 N71-27272 *
US-PATENT-APPL-SN-668247 ..... c 09 N71-20445 *
US-PATENT-APPL-SN-668248 ..... c 10 N71-26331 *
US-PATENT-APPL-SN-668249 ..... c 03 N71-20407 *
US-PATENT-APPL-SN-668257 ..... c 23 N71-16100 *
US-PATENT-APPL-SN-668302 ..... c 07 N71-12390 *
US-PATENT-APPL-SN-668432 ..... c 35 N86-29174 *
US-PATENT-APPL-SN-668751 ..... c 06 N71-11237 *
US-PATENT-APPL-SN-668755 ..... c 15 N71-17693 *
US-PATENT-APPL-SN-668771 ..... c 35 N78-32397 *
US-PATENT-APPL-SN-668783 ..... c 28 N80-10374 *
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US-PATENT-APPL-SN-668969 ..... c 08 N71-19288 *
US-PATENT-APPL-SN-668971 ..... c 07 N78-33101 *
US-PATENT-APPL-SN-669140 ..... c 44 N86-32875 *
US-PATENT-APPL-SN-669336 ..... c 15 N71-17651 *
US-PATENT-APPL-SN-669911 ..... c 33 N78-17295 *
US-PATENT-APPL-SN-669928 ..... c 44 N77-22607 *
US-PATENT-APPL-SN-670814 ..... c 03 N71-19545 *
US-PATENT-APPL-SN-670829 ..... c 28 N72-23809 *
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US-PATENT-APPL-SN-672219 ..... c 37 N80-28711 *
US-PATENT-APPL-SN-672219 ..... c 37 N81-26447 *
US-PATENT-APPL-SN-672220 ..... c 31 N78-17237 *
US-PATENT-APPL-SN-672221 ..... c 07 N78-27121 *
US-PATENT-APPL-SN-672222 ..... c 07 N78-25090 *
US-PATENT-APPL-SN-672223 ..... c 51 N78-27733 *
US-PATENT-APPL-SN-672224 ..... c 37 N86-25790 *
US-PATENT-APPL-SN-672382 ..... c 15 N71-23815 *
US-PATENT-APPL-SN-672383 ..... c 15 N71-24045 *
US-PATENT-APPL-SN-672384 ..... c 15 N71-27067 *
US-PATENT-APPL-SN-672388 ..... c 26 N72-17820 *
US-PATENT-APPL-SN-672636 ..... c 37 N79-11405 *
US-PATENT-APPL-SN-672695 ..... c 27 N78-17206 *
US-PATENT-APPL-SN-672815 ..... c 37 N77-23482 *
US-PATENT-APPL-SN-673226 ..... c 08 N71-12502 *
US-PATENT-APPL-SN-673227 ..... c 11 N71-24964 *
US-PATENT-APPL-SN-673228 ..... c 07 N71-19433 *
US-PATENT-APPL-SN-673229 ..... c 33 N71-15641 *
US-PATENT-APPL-SN-673685 ..... c 60 N87-21591 *
US-PATENT-APPL-SN-674194 ..... c 27 N78-17215 *
US-PATENT-APPL-SN-674195 ..... c 74 N78-17866 *
US-PATENT-APPL-SN-674355 ..... c 14 N71-20429 *
US-PATENT-APPL-SN-674356 ..... c 14 N71-23699 *
US-PATENT-APPL-SN-674357 ..... c 05 N71-12351 *
US-PATENT-APPL-SN-674395 ..... c 76 N87-23286 *
US-PATENT-APPL-SN-674636 ..... c 31 N91-25306 * #
US-PATENT-APPL-SN-674700 ..... c 27 N77-31308 *
US-PATENT-APPL-SN-674828 ..... c 52 N91-28727 * #
US-PATENT-APPL-SN-675238 ..... c 10 N71-26374 *
US-PATENT-APPL-SN-675328 ..... c 35 N78-15461 *
US-PATENT-APPL-SN-675351 ..... c 35 N78-10429 *
US-PATENT-APPL-SN-675471 ..... c 33 N90-20282 *
US-PATENT-APPL-SN-676012 ..... c 05 N71-11193 *
US-PATENT-APPL-SN-676375 ..... c 14 N71-18483 *
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US-PATENT-APPL-SN-676387 ..... c 10 N71-25950 *
US-PATENT-APPL-SN-676391 ..... c 21 N71-11766 *
US-PATENT-APPL-SN-676432 ..... c 28 N78-24365 *
US-PATENT-APPL-SN-676432 ..... c 28 N80-20402 *
US-PATENT-APPL-SN-676432 ..... c 28 N81-14103 *
US-PATENT-APPL-SN-676433 ..... c 52 N77-28716 *
US-PATENT-APPL-SN-676910 ..... c 44 N91-23617 * #
US-PATENT-APPL-SN-676957 ..... c 32 N77-18307 *
US-PATENT-APPL-SN-676958 ..... c 54 N76-22914 *
US-PATENT-APPL-SN-676958 ..... c 52 N81-25661 *
US-PATENT-APPL-SN-677008 ..... c 37 N91-28579 * #
US-PATENT-APPL-SN-677182 ..... c 33 N91-25335 * #
US-PATENT-APPL-SN-67730 ..... c 15 N73-13463 *
US-PATENT-APPL-SN-677351 ..... c 35 N77-32455 *
US-PATENT-APPL-SN-677352 ..... c 43 N78-10529 *
US-PATENT-APPL-SN-677353 ..... c 52 N78-14773 *
US-PATENT-APPL-SN-677475 ..... c 32 N71-26681 *
US-PATENT-APPL-SN-677476 ..... c 14 N71-17586 *
US-PATENT-APPL-SN-677505 ..... c 09 N71-13521 *
US-PATENT-APPL-SN-677506 ..... c 16 N71-15567 *
US-PATENT-APPL-SN-677508 ..... c 16 N71-15551 *
US-PATENT-APPL-SN-67815 ..... c 28 N72-22771 *
US-PATENT-APPL-SN-678520 ..... c 20 N78-24275 *
US-PATENT-APPL-SN-678551 ..... c 37 N91-28580 * #
US-PATENT-APPL-SN-678553 ..... c 14 N91-28184 * #
US-PATENT-APPL-SN-678700 ..... c 05 N71-19439 *
US-PATENT-APPL-SN-678780 ..... c 09 N91-25155 * #
US-PATENT-APPL-SN-678813 ..... c 33 N81-29342 *
US-PATENT-APPL-SN-679055 ..... c 08 N71-24633 *
US-PATENT-APPL-SN-679862 ..... c 20 N71-16340 *
US-PATENT-APPL-SN-679885 ..... c 09 N71-12521 *
US-PATENT-APPL-SN-679980 ..... c 44 N82-24642 *
US-PATENT-APPL-SN-679987 ..... c 44 N82-24644 *
US-PATENT-APPL-SN-679996 ..... c 44 N82-24643 *
US-PATENT-APPL-SN-680015 ..... c 52 N79-14750 *
US-PATENT-APPL-SN-680048 ..... c 44 N82-24641 *
US-PATENT-APPL-SN-680067 ..... c 07 N77-27116 *
US-PATENT-APPL-SN-68023 ..... c 05 N72-33096 *
US-PATENT-APPL-SN-68024 ..... c 17 N72-22535 *
US-PATENT-APPL-SN-680605 ..... c 37 N91-14616 *
US-PATENT-APPL-SN-680938 ..... c 74 N77-26942 *
US-PATENT-APPL-SN-680939 ..... c 44 N78-10554 *
US-PATENT-APPL-SN-680957 ..... c 35 N77-27366 *
US-PATENT-APPL-SN-680958 ..... c 74 N78-18905 *
US-PATENT-APPL-SN-681000 ..... c 34 N78-25350 *
US-PATENT-APPL-SN-681001 ..... c 74 N76-22993 *
US-PATENT-APPL-SN-681017 ..... c 44 N77-32583 *
US-PATENT-APPL-SN-681041 ..... c 37 N86-27629 *
US-PATENT-APPL-SN-681096 ..... c 44 N77-32582 *
US-PATENT-APPL-SN-681288 ..... c 36 N91-23472 * #
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US-PATENT-APPL-SN-681692 ..... c 08 N71-12506 *
US-PATENT-APPL-SN-681693 ..... c 09 N71-18598 *
US-PATENT-APPL-SN-681942 ..... c 18 N71-15688 *
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US-PATENT-APPL-SN-682153 ..... c 31 N91-28455 * #
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US-PATENT-APPL-SN-682435 ..... c 27 N77-32308 *
US-PATENT-APPL-SN-683073 ..... c 44 N81-29525 *
US-PATENT-APPL-SN-683073 ..... c 44 N82-28780 *
US-PATENT-APPL-SN-683101 ..... c 33 N87-21235 *
US-PATENT-APPL-SN-683111 ..... c 33 N87-22894 *
US-PATENT-APPL-SN-683465 ..... c 27 N82-29451 *
US-PATENT-APPL-SN-683507 ..... c 15 N71-15609 *
US-PATENT-APPL-SN-683606 ..... c 09 N71-24717 *
US-PATENT-APPL-SN-683612 ..... c 01 N69-39981 * #
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US-PATENT-APPL-SN-684083 ..... c 09 N71-24596 *
US-PATENT-APPL-SN-684171 ..... c 26 N78-18183 *
US-PATENT-APPL-SN-684178 ..... c 15 N71-23812 *
US-PATENT-APPL-SN-684186 ..... c 35 N88-29150 *
US-PATENT-APPL-SN-684190 ..... c 54 N86-28619 *
US-PATENT-APPL-SN-684192 ..... c 54 N86-28620 *
US-PATENT-APPL-SN-684193 ..... c 54 N86-28618 *
US-PATENT-APPL-SN-684194 ..... c 35 N85-20300 * #
US-PATENT-APPL-SN-684209 ..... c 10 N71-19418 *
US-PATENT-APPL-SN-684807 ..... c 75 N78-27913 *
US-PATENT-APPL-SN-684894 ..... c 17 N71-26773 *
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US-PATENT-APPL-SN-685497 ..... c 07 N69-39974 * #
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US-PATENT-APPL-SN-687606 ..... c 37 N91-26543 * #
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US-PATENT-APPL-SN-688807 ..... c 03 N71-23239 *
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US-PATENT-APPL-SN-691610 ..... c 18 N91-25167 * #
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US-PATENT-APPL-SN-703905 ..... c 32 N80-14281 *
US-PATENT-APPL-SN-704180 ..... c 36 N78-27402 *
US-PATENT-APPL-SN-704224 ..... c 18 N71-15469 *
US-PATENT-APPL-SN-704299 ..... c 10 N71-26577 *
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US-PATENT-APPL-SN-704446 ..... c 10 N71-33407 *
US-PATENT-APPL-SN-704465 ..... c 07 N71-24741 *
US-PATENT-APPL-SN-704468 ..... c 25 N79-28253 *
US-PATENT-APPL-SN-704668 ..... c 10 N71-12554 *
US-PATENT-APPL-SN-706013 ..... c 33 N71-27862 *
US-PATENT-APPL-SN-706073 ..... c 76 N79-11920 *
US-PATENT-APPL-SN-706424 ..... c 27 N78-32256 *
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US-PATENT-APPL-SN-706425 ..... c 33 N78-10376 *
US-PATENT-APPL-SN-706564 ..... c 14 N71-17587 *
US-PATENT-APPL-SN-706564 ..... c 76 N87-15882 *
US-PATENT-APPL-SN-706565 ..... c 76 N87-25862 *
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US-PATENT-APPL-SN-706682 ..... c 24 N86-28131 *
US-PATENT-APPL-SN-707124 ..... c 44 N77-22606 *
US-PATENT-APPL-SN-707125 ..... c 39 N78-16387 *
US-PATENT-APPL-SN-707440 ..... c 06 N73-30102 *
US-PATENT-APPL-SN-707495 ..... c 11 N71-18773 *
US-PATENT-APPL-SN-708255 ..... c 24 N91-25202 * #
US-PATENT-APPL-SN-708658 ..... c 33 N77-26385 *
US-PATENT-APPL-SN-708660 ..... c 34 N78-27357 *
US-PATENT-APPL-SN-708771 ..... c 26 N78-24333 *
US-PATENT-APPL-SN-708795 ..... c 37 N77-28487 *
US-PATENT-APPL-SN-708796 ..... c 36 N78-18410 *
US-PATENT-APPL-SN-708800 ..... c 54 N78-17676 *
US-PATENT-APPL-SN-708951 ..... c 27 N78-31232 *
US-PATENT-APPL-SN-709255 ..... c 37 N86-32738 *
US-PATENT-APPL-SN-709257 ..... c 32 N87-14559 *
US-PATENT-APPL-SN-709398 ..... c 06 N71-13461 *
US-PATENT-APPL-SN-709399 ..... c 16 N71-26154 *
US-PATENT-APPL-SN-709415 ..... c 44 N78-27515 *
US-PATENT-APPL-SN-709622 ..... c 33 N71-24858 *
US-PATENT-APPL-SN-70967 ..... c 07 N73-13149 *
US-PATENT-APPL-SN-70967 ..... c 32 N74-10132 *
US-PATENT-APPL-SN-709849 ..... c 52 N77-25772 *
US-PATENT-APPL-SN-709907 ..... c 20 N91-26200 * #
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US-PATENT-APPL-SN-710035 ..... c 44 N78-24608 *
US-PATENT-APPL-SN-710036 ..... c 44 N78-32539 *
US-PATENT-APPL-SN-710192 ..... c 33 N91-26459 * #
US-PATENT-APPL-SN-710193 ..... c 35 N91-25388 * #
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US-PATENT-APPL-SN-71048 ..... c 18 N73-12604 *
US-PATENT-APPL-SN-710533 ..... c 02 N71-11043 *
US-PATENT-APPL-SN-710561 ..... c 09 N71-12517 *
US-PATENT-APPL-SN-710562 ..... c 31 N71-16085 *
US-PATENT-APPL-SN-710621 ..... c 06 N73-27086 *
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US-PATENT-APPL-SN-710949 ..... c 12 N71-17631 *
US-PATENT-APPL-SN-711898 ..... c 18 N71-24934 *
US-PATENT-APPL-SN-711903 ..... c 18 N71-26772 *
US-PATENT-APPL-SN-711921 ..... c 18 N71-16105 *
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US-PATENT-APPL-SN-711971 ..... c 09 N71-23598 *
US-PATENT-APPL-SN-711972 ..... c 06 N71-24607 *
US-PATENT-APPL-SN-712065 ..... c 08 N71-12503 *
US-PATENT-APPL-SN-712099 ..... c 23 N71-24868 *
US-PATENT-APPL-SN-712270 ..... c 52 N79-27836 *
US-PATENT-APPL-SN-712419 ..... c 35 N78-14364 *
US-PATENT-APPL-SN-712658 ..... c 07 N71-19773 *
US-PATENT-APPL-SN-712796 ..... c 60 N91-32805 * #
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US-PATENT-APPL-SN-713162 ..... c 06 N71-26754 *
US-PATENT-APPL-SN-713188 ..... c 08 N71-33110 *
US-PATENT-APPL-SN-713449 ..... c 74 N87-25843 *
US-PATENT-APPL-SN-713616 ..... c 06 N71-27363 *
US-PATENT-APPL-SN-714051 ..... c 33 N86-21742 *
US-PATENT-APPL-SN-714158 ..... c 33 N78-13320 *
US-PATENT-APPL-SN-714296 ..... c 14 N71-15604 *
US-PATENT-APPL-SN-714595 ..... c 15 N71-17822 *
US-PATENT-APPL-SN-714814 ..... c 37 N91-28582 * #
US-PATENT-APPL-SN-715485 ..... c 74 N78-14889 *
US-PATENT-APPL-SN-715975 ..... c 06 N71-11240 *
US-PATENT-APPL-SN-716182 ..... c 53 N91-28730 * #
US-PATENT-APPL-SN-716183 ..... c 15 N71-18132 *
US-PATENT-APPL-SN-716734 ..... c 15 N71-17628 *
US-PATENT-APPL-SN-716795 ..... c 14 N71-20435 *
US-PATENT-APPL-SN-716885 ..... c 74 N78-33913 *
US-PATENT-APPL-SN-717052 ..... c 14 N71-17626 *
US-PATENT-APPL-SN-717319 ..... c 44 N77-31601 *
US-PATENT-APPL-SN-717320 ..... c 44 N78-15560 *
US-PATENT-APPL-SN-717447 ..... c 76 N91-26968 * #
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US-PATENT-APPL-SN-718046 ..... c 26 N91-28363 * #
US-PATENT-APPL-SN-718095 ..... c 28 N70-39899 *
US-PATENT-APPL-SN-718137 ..... c 44 N78-31527 *
US-PATENT-APPL-SN-718244 ..... c 05 N78-32086 *
US-PATENT-APPL-SN-718266 ..... c 74 N78-17867 *
US-PATENT-APPL-SN-718267 ..... c 26 N77-29260 *
US-PATENT-APPL-SN-718268 ..... c 44 N78-33526 *
US-PATENT-APPL-SN-718279 ..... c 15 N71-26312 *
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US-PATENT-APPL-SN-718314 ..... c 76 N91-26967 * #
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US-PATENT-APPL-SN-718752 ..... c 03 N71-18698 *
US-PATENT-APPL-SN-718769 ..... c 14 N71-17662 *
US-PATENT-APPL-SN-718798 ..... c 76 N91-15898 *
US-PATENT-APPL-SN-719029 ..... c 14 N71-27186 *
US-PATENT-APPL-SN-719173 ..... c 28 N70-33331 *
US-PATENT-APPL-SN-719794 ..... c 35 N86-32695 * #
US-PATENT-APPL-SN-719796 ..... c 24 N86-21590 *
US-PATENT-APPL-SN-719799 ..... c 35 N86-25752 *
US-PATENT-APPL-SN-719869 ..... c 31 N71-15676 *
US-PATENT-APPL-SN-719870 ..... c 07 N71-26292 *
US-PATENT-APPL-SN-720041 ..... c 05 N71-27234 *
US-PATENT-APPL-SN-720125 ..... c 09 N71-12539 *
US-PATENT-APPL-SN-720133 ..... c 27 N91-28423 * #
US-PATENT-APPL-SN-72024 ..... c 09 N73-12211 *
US-PATENT-APPL-SN-720521 ..... c 44 N78-25530 *
US-PATENT-APPL-SN-720546 ..... c 18 N72-17532 *
US-PATENT-APPL-SN-721038 ..... c 27 N91-28424 * #
US-PATENT-APPL-SN-721039 ..... c 09 N91-28175 * #
US-PATENT-APPL-SN-721150 ..... c 37 N78-17383 *
US-PATENT-APPL-SN-721607 ..... c 18 N71-25881 *
US-PATENT-APPL-SN-722446 ..... c 20 N91-32167 * #
US-PATENT-APPL-SN-723264 ..... c 24 N78-10214 *
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US-PATENT-APPL-SN-723465 ..... c 37 N74-15125 *
US-PATENT-APPL-SN-723476 ..... c 05 N71-12341 *
US-PATENT-APPL-SN-723488 ..... c 09 N71-28691 *
US-PATENT-APPL-SN-723804 ..... c 09 N71-24806 *
US-PATENT-APPL-SN-723805 ..... c 10 N71-26339 *
US-PATENT-APPL-SN-723827 ..... c 10 N71-27137 *
US-PATENT-APPL-SN-724551 ..... c 15 N71-17696 *
US-PATENT-APPL-SN-724874 ..... c 76 N78-24950 *
US-PATENT-APPL-SN-725111 ..... c 52 N91-29714 * #
US-PATENT-APPL-SN-725405 ..... c 15 N71-26134 *
US-PATENT-APPL-SN-725432 ..... c 07 N71-24622 *
US-PATENT-APPL-SN-725475 ..... c 31 N71-15643 *
US-PATENT-APPL-SN-725686 ..... c 27 N87-15304 *
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US-PATENT-APPL-SN-725714 ..... c 33 N89-14384 *
US-PATENT-APPL-SN-725719 ..... c 15 N71-26243 *
US-PATENT-APPL-SN-725725 ..... c 27 N87-16908 *
US-PATENT-APPL-SN-725727 ..... c 27 N87-22845 *
US-PATENT-APPL-SN-726898 ..... c 12 N71-17579 *
US-PATENT-APPL-SN-727034 ..... c 35 N87-14669 *
US-PATENT-APPL-SN-727035 ..... c 33 N86-32624 *
US-PATENT-APPL-SN-727444 ..... c 31 N81-15154 *
US-PATENT-APPL-SN-727480 ..... c 14 N71-17658 *
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US-PATENT-APPL-SN-729299 ..... c 03 N72-15986 *
US-PATENT-APPL-SN-729704 ..... c 37 N87-23983 *
US-PATENT-APPL-SN-729719 ..... c 32 N87-25511 *
US-PATENT-APPL-SN-729766 ..... c 09 N87-14355 *
US-PATENT-APPL-SN-729767 ..... c 24 N87-27742 * #
US-PATENT-APPL-SN-729768 ..... c 72 N87-21660 *
US-PATENT-APPL-SN-730045 ..... c 32 N78-24391 *
US-PATENT-APPL-SN-730046 ..... c 35 N78-32396 *
US-PATENT-APPL-SN-730162 ..... c 09 N71-18599 *
US-PATENT-APPL-SN-730468 ..... c 25 N79-11152 *
US-PATENT-APPL-SN-730700 ..... c 07 N71-24583 *
US-PATENT-APPL-SN-730701 ..... c 12 N71-18615 *
US-PATENT-APPL-SN-730702 ..... c 33 N71-16356 *
US-PATENT-APPL-SN-730703 ..... c 10 N71-13537 *
US-PATENT-APPL-SN-730733 ..... c 28 N71-16224 *
US-PATENT-APPL-SN-730734 ..... c 15 N71-17654 *
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US-PATENT-APPL-SN-732630 ..... c 36 N78-14380 *
US-PATENT-APPL-SN-73283 ..... c 15 N72-28495 *
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US-PATENT-APPL-SN-732921 ..... c 10 N71-26544 *
US-PATENT-APPL-SN-732922 ..... c 17 N71-28747 *
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US-PATENT-APPL-SN-73310 ..... c 09 N72-25247 *
US-PATENT-APPL-SN-73367 ..... c 14 N71-15969 *
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US-PATENT-APPL-SN-734366 ..... c 27 N87-22847 *
US-PATENT-APPL-SN-734805 ..... c 14 N70-34816 *
US-PATENT-APPL-SN-734901 ..... c 27 N78-17205 *
US-PATENT-APPL-SN-734902 ..... c 24 N78-14096 *
US-PATENT-APPL-SN-735149 ..... c 37 N91-32511 * #
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US-PATENT-APPL-SN-736909 ..... c 37 N79-11404 *
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US-PATENT-APPL-SN-738218 ..... c 37 N78-27425 *
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US-PATENT-APPL-SN-738315 ..... c 14 N72-31446 *
US-PATENT-APPL-SN-73834 ..... c 15 N72-23497 *
US-PATENT-APPL-SN-738931 ..... c 35 N86-20756 * #
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US-PATENT-APPL-SN-73922 ..... c 14 N73-25461 *
US-PATENT-APPL-SN-73932 ..... c 15 N72-22485 *
US-PATENT-APPL-SN-739391 ..... c 09 N72-17156 *
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US-PATENT-APPL-SN-739914 ..... c 33 N78-10375 *
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US-PATENT-APPL-SN-739927 ..... c 32 N71-16103 *
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US-PATENT-APPL-SN-740155 ..... c 74 N78-27904 *

US-PATENT-APPL-SN-740156 ..... c 71 N78-14867 *
US-PATENT-APPL-SN-740457 ..... c 35 N78-32395 *
US-PATENT-APPL-SN-740675 ..... c 38 N91-32515 * #
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US-PATENT-APPL-SN-742816 ..... c 14 N71-17656 *
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US-PATENT-APPL-SN-760791 ..... c 27 N87-14515 *
US-PATENT-APPL-SN-760797 ..... c 27 N87-16907 *
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US-PATENT-APPL-SN-760809 ..... c 24 N78-24290 *
US-PATENT-APPL-SN-760810 ..... c 26 N78-32229 *
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US-PATENT-APPL-SN-760928 ..... c 15 N71-28582 *
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US-PATENT-APPL-SN-761252 ..... c 27 N80-32515 *
US-PATENT-APPL-SN-761310 ..... c 25 N88-23846 *
US-PATENT-APPL-SN-761404 ..... c 09 N71-12526 *
US-PATENT-APPL-SN-762362 ..... c 44 N79-24433 *
US-PATENT-APPL-SN-762363 ..... c 44 N79-24432 *
US-PATENT-APPL-SN-762438 ..... c 12 N71-17569 *
US-PATENT-APPL-SN-762935 ..... c 14 N71-29041 *
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US-PATENT-APPL-SN-762957 ..... c 08 N71-27210 *
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US-PATENT-APPL-SN-763744 ..... c 10 N72-27246 *
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US-PATENT-APPL-SN-763868 ..... c 15 N71-24679 *
US-PATENT-APPL-SN-763869 ..... c 17 N71-16393 *
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US-PATENT-APPL-SN-764252 ..... c 14 N71-25901 *
US-PATENT-APPL-SN-764470 ..... c 16 N71-28554 *
US-PATENT-APPL-SN-764805 ..... c 37 N87-17036 *
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US-PATENT-APPL-SN-765167 ..... c 32 N79-10263 *
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US-PATENT-APPL-SN-766244 ..... c 15 N71-26721 *
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US-PATENT-APPL-SN-7669 ..... c 31 N72-18859 *
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US-PATENT-APPL-SN-768662 ..... c 07 N73-25160 *
US-PATENT-APPL-SN-768795 ..... c 33 N79-10339 *
US-PATENT-APPL-SN-768942 ..... c 46 N74-23068 *
US-PATENT-APPL-SN-76899 ..... c 09 N72-22201 *
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US-PATENT-APPL-SN-770203 ..... c 05 N71-11195 *
US-PATENT-APPL-SN-770209 ..... c 08 N71-27057 *
US-PATENT-APPL-SN-770371 ..... c 15 N71-24599 *
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US-PATENT-APPL-SN-770417 ..... c 06 N73-33076 *
US-PATENT-APPL-SN-770425 ..... c 06 N72-20121 *
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US-PATENT-APPL-SN-771538 ..... c 24 N86-25416 *
US-PATENT-APPL-SN-77169 ..... c 14 N72-21408 *
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US-PATENT-APPL-SN-771803 ..... c 07 N71-12391 *
US-PATENT-APPL-SN-771937 ..... c 10 N71-24862 *
US-PATENT-APPL-SN-772006 ..... c 17 N71-33408 *
US-PATENT-APPL-SN-772165 ..... c 74 N79-13855 *
US-PATENT-APPL-SN-772167 ..... c 25 N79-22235 *
US-PATENT-APPL-SN-772168 ..... c 37 N79-20377 *
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US-PATENT-APPL-SN-77256 ..... c 15 N70-33323 *
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US-PATENT-APPL-SN-773072 ..... c 10 N72-28241 *
US-PATENT-APPL-SN-773530 ..... c 25 N75-29192 *
US-PATENT-APPL-SN-774151 ..... c 15 N71-17692 *
US-PATENT-APPL-SN-774265 ..... c 10 N71-27365 *
US-PATENT-APPL-SN-774266 ..... c 15 N71-26185 *
US-PATENT-APPL-SN-774384 ..... c 32 N79-10262 *
US-PATENT-APPL-SN-774691 ..... c 10 N72-31273 *
US-PATENT-APPL-SN-774733 ..... c 14 N72-24477 *
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US-PATENT-APPL-SN-775239 ..... c 37 N79-14382 *
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US-PATENT-APPL-SN-775877 ..... c 02 N71-11039 *
US-PATENT-APPL-SN-775966 ..... c 02 N71-11037 *
US-PATENT-APPL-SN-775968 ..... c 31 N87-21160 *
US-PATENT-APPL-SN-775989 ..... c 71 N87-21653 *
US-PATENT-APPL-SN-775990 ..... c 17 N87-25348 *
US-PATENT-APPL-SN-776029 ..... c 07 N79-10057 *
US-PATENT-APPL-SN-776146 ..... c 44 N79-17313 *
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US-PATENT-APPL-SN-777765 ..... c 15 N71-29018 *
US-PATENT-APPL-SN-777765 ..... c 14 N73-28487 *
US-PATENT-APPL-SN-777766 ..... c 31 N71-16221 *
US-PATENT-APPL-SN-777818 ..... c 09 N71-27364 *
US-PATENT-APPL-SN-77786 ..... c 14 N72-27412 *
US-PATENT-APPL-SN-777983 ..... c 32 N79-24210 *
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US-PATENT-APPL-SN-77869 ..... c 37 N79-21345 *
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US-PATENT-APPL-SN-779160 ..... c 14 N72-16282 *
US-PATENT-APPL-SN-779169 ..... c 09 N71-28618 *
US-PATENT-APPL-SN-779415 ..... c 60 N79-20751 *
US-PATENT-APPL-SN-779428 ..... c 34 N78-25351 *
US-PATENT-APPL-SN-779429 ..... c 08 N79-14108 *
US-PATENT-APPL-SN-779744 ..... c 74 N87-23259 *
US-PATENT-APPL-SN-779847 ..... c 15 N71-27091 *
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US-PATENT-APPL-SN-779883 ..... c 27 N79-18052 *
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US-PATENT-APPL-SN-78065 ..... c 08 N72-22162 *
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US-PATENT-APPL-SN-780874 ..... c 35 N78-28411 *
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US-PATENT-APPL-SN-781813 ..... c 27 N87-14516 *
US-PATENT-APPL-SN-782462 ..... c 33 N79-17133 *
US-PATENT-APPL-SN-782463 ..... c 72 N79-13826 *
US-PATENT-APPL-SN-782464 ..... c 32 N79-14267 *
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US-PATENT-APPL-SN-782481 ..... c 44 N78-32542 *
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US-PATENT-APPL-SN-806226 ..... c 14 N71-27407 *
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US-PATENT-APPL-SN-806572 ..... c 27 N87-25469 *
US-PATENT-APPL-SN-807597 ..... c 52 N80-16725 *
US-PATENT-APPL-SN-807703 ..... c 37 N78-27424 *
US-PATENT-APPL-SN-807762 ..... c 27 N78-31233 *
US-PATENT-APPL-SN-808192 ..... c 15 N71-27432 *
US-PATENT-APPL-SN-808193 ..... c 31 N71-26537 *
US-PATENT-APPL-SN-808462 ..... c 10 N71-27136 *
US-PATENT-APPL-SN-808510 ..... c 33 N78-32338 *
US-PATENT-APPL-SN-808576 ..... c 15 N71-27754 *
US-PATENT-APPL-SN-808577 ..... c 32 N71-25360 *
US-PATENT-APPL-SN-808822 ..... c 14 N73-16483 *
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US-PATENT-APPL-SN-809851 ..... c 33 N87-23904 *
US-PATENT-APPL-SN-809890 ..... c 44 N79-17314 *
US-PATENT-APPL-SN-809890 ..... c 44 N80-14474 *
US-PATENT-APPL-SN-809975 ..... c 44 N87-17399 *
US-PATENT-APPL-SN-810575 ..... c 15 N71-27169 *
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US-PATENT-APPL-SN-810815 ..... c 06 N72-22107 *
US-PATENT-APPL-SN-81095 ..... c 13 N72-25323 *
US-PATENT-APPL-SN-81096 ..... c 14 N73-14427 *
US-PATENT-APPL-SN-811037 ..... c 14 N71-26137 *
US-PATENT-APPL-SN-811038 ..... c 14 N72-20380 *
US-PATENT-APPL-SN-811309 ..... c 76 N90-20896 *
US-PATENT-APPL-SN-811401 ..... c 31 N81-25258 *
US-PATENT-APPL-SN-811509 ..... c 02 N70-33332 *
US-PATENT-APPL-SN-811542 ..... c 21 N71-24948 *
US-PATENT-APPL-SN-811815 ..... c 44 N78-31525 *
US-PATENT-APPL-SN-811892 ..... c 14 N71-27090 *
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US-PATENT-APPL-SN-813338 ..... c 18 N72-22566 *
US-PATENT-APPL-SN-813488 ..... c 15 N71-28467 *
US-PATENT-APPL-SN-813494 ..... c 08 N72-11171 *
US-PATENT-APPL-SN-814004 ..... c 33 N79-18193 *
US-PATENT-APPL-SN-814005 ..... c 76 N79-14906 *
US-PATENT-APPL-SN-814006 ..... c 37 N79-22475 *
US-PATENT-APPL-SN-814212 ..... c 14 N72-17326 *
US-PATENT-APPL-SN-814378 ..... c 25 N79-10162 *
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US-PATENT-APPL-SN-815103 ..... c 60 N89-26400 *
US-PATENT-APPL-SN-815106 ..... c 60 N88-24169 *
US-PATENT-APPL-SN-815366 ..... c 14 N71-28994 *
US-PATENT-APPL-SN-815367 ..... c 14 N71-28863 *
US-PATENT-APPL-SN-815760 ..... c 15 N71-27068 *
US-PATENT-APPL-SN-816733 ..... c 15 N71-27084 *
US-PATENT-APPL-SN-816988 ..... c 14 N71-26199 *
US-PATENT-APPL-SN-817413 ..... c 33 N79-12321 *
US-PATENT-APPL-SN-817415 ..... c 74 N79-20857 *
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US-PATENT-APPL-SN-817569 ..... c 06 N69-31244 * #
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US-PATENT-APPL-SN-818917 ..... c 32 N79-13214 *
US-PATENT-APPL-SN-819029 ..... c 20 N82-18314 *
US-PATENT-APPL-SN-819599 ..... c 15 N71-19214 *
US-PATENT-APPL-SN-819898 ..... c 30 N72-17873 *
US-PATENT-APPL-SN-8203 ..... c 15 N70-33180 *
US-PATENT-APPL-SN-820453 ..... c 03 N72-24037 *
US-PATENT-APPL-SN-820498 ..... c 89 N79-10969 *
US-PATENT-APPL-SN-820499 ..... c 76 N79-23798 *
US-PATENT-APPL-SN-8204 ..... c 31 N70-37981 *
US-PATENT-APPL-SN-820963 ..... c 07 N71-19854 *
US-PATENT-APPL-SN-820964 ..... c 15 N71-28740 *
US-PATENT-APPL-SN-820965 ..... c 09 N71-13486 *
US-PATENT-APPL-SN-821586 ..... c 26 N71-14354 *
US-PATENT-APPL-SN-821681 ..... c 35 N78-27384 *
US-PATENT-APPL-SN-822039 ..... c 06 N72-25149 *
US-PATENT-APPL-SN-822088 ..... c 15 N71-27135 *
US-PATENT-APPL-SN-822089 ..... c 23 N72-23695 *
US-PATENT-APPL-SN-822090 ..... c 16 N71-27183 *
US-PATENT-APPL-SN-822518 ..... c 09 N71-13522 *
US-PATENT-APPL-SN-822519 ..... c 14 N71-28992 *
US-PATENT-APPL-SN-822534 ..... c 09 N72-11224 *
US-PATENT-APPL-SN-82279 ..... c 03 N76-32140 *
US-PATENT-APPL-SN-82280 ..... c 09 N72-25262 *
US-PATENT-APPL-SN-823061 ..... c 44 N79-23481 *
US-PATENT-APPL-SN-823566 ..... c 74 N79-14891 *
US-PATENT-APPL-SN-823712 ..... c 44 N88-14492 *
US-PATENT-APPL-SN-823713 ..... c 26 N88-14179 *
US-PATENT-APPL-SN-824024 ..... c 44 N79-18443 *
US-PATENT-APPL-SN-824042 ..... c 23 N71-29123 *
US-PATENT-APPL-SN-824628 ..... c 34 N78-17337 *
US-PATENT-APPL-SN-824755 ..... c 09 N70-33182 *
US-PATENT-APPL-SN-825253 ..... c 16 N69-31343 * #
US-PATENT-APPL-SN-825258 ..... c 26 N72-21701 *
US-PATENT-APPL-SN-825259 ..... c 14 N71-26788 *
US-PATENT-APPL-SN-825489 ..... c 27 N81-15104 *
US-PATENT-APPL-SN-826202 ..... c 37 N79-28551 *
US-PATENT-APPL-SN-826204 ..... c 37 N79-10420 *
US-PATENT-APPL-SN-826326 ..... c 46 N79-22679 *
US-PATENT-APPL-SN-82647 ..... c 28 N72-22772 *
US-PATENT-APPL-SN-82648 ..... c 12 N72-25292 *
US-PATENT-APPL-SN-82649 ..... c 08 N73-30135 *
US-PATENT-APPL-SN-82658 ..... c 30 N70-40309 *
US-PATENT-APPL-SN-827185 ..... c 52 N89-16256 *
US-PATENT-APPL-SN-827464 ..... c 74 N79-34011 *
US-PATENT-APPL-SN-827579 ..... c 15 N71-24984 *
US-PATENT-APPL-SN-827597 ..... c 26 N69-33482 * #
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US-PATENT-APPL-SN-828909 ..... c 28 N71-27094 *
US-PATENT-APPL-SN-828920 ..... c 35 N74-22095 *
US-PATENT-APPL-SN-828921 ..... c 09 N71-27001 *
US-PATENT-APPL-SN-828983 ..... c 03 N71-24719 *
US-PATENT-APPL-SN-828984 ..... c 08 N71-29033 *
US-PATENT-APPL-SN-829042 ..... c 35 N89-14407 *
US-PATENT-APPL-SN-829314 ..... c 09 N79-31228 *
US-PATENT-APPL-SN-829315 ..... c 34 N79-20336 *
US-PATENT-APPL-SN-829316 ..... c 18 N79-11108 *
US-PATENT-APPL-SN-829317 ..... c 52 N80-18690 *
US-PATENT-APPL-SN-829318 ..... c 52 N80-14684 *
US-PATENT-APPL-SN-829390 ..... c 44 N79-11469 *
US-PATENT-APPL-SN-829390 ..... c 44 N80-16452 *
US-PATENT-APPL-SN-829825 ..... c 03 N71-24681 *
US-PATENT-APPL-SN-830272 ..... c 33 N81-29342 *
US-PATENT-APPL-SN-830366 ..... c 16 N72-13437 *
US-PATENT-APPL-SN-830458 ..... c 46 N79-23555 *
US-PATENT-APPL-SN-830562 ..... c 39 N80-10507 *
US-PATENT-APPL-SN-830715 ..... c 15 N71-24903 *
US-PATENT-APPL-SN-830846 ..... c 31 N80-32584 *
US-PATENT-APPL-SN-830978 ..... c 28 N71-26173 *
US-PATENT-APPL-SN-831118 ..... c 08 N72-11172 *
US-PATENT-APPL-SN-831193 ..... c 32 N88-26568 *
US-PATENT-APPL-SN-831371 ..... c 31 N87-25492 *
US-PATENT-APPL-SN-831372 ..... c 35 N88-30108 *
US-PATENT-APPL-SN-831377 ..... c 37 N87-23982 *
US-PATENT-APPL-SN-831631 ..... c 32 N79-20297 *
US-PATENT-APPL-SN-831632 ..... c 07 N80-26298 *
US-PATENT-APPL-SN-831633 ..... c 05 N80-14107 *
US-PATENT-APPL-SN-831634 ..... c 05 N79-12061 *
US-PATENT-APPL-SN-832296 ..... c 26 N87-28647 *
US-PATENT-APPL-SN-832603 ..... c 09 N72-22199 *
US-PATENT-APPL-SN-833049 ..... c 06 N72-21094 *
US-PATENT-APPL-SN-833637 ..... c 33 N79-24257 *
US-PATENT-APPL-SN-834257 ..... c 32 N80-14281 *
US-PATENT-APPL-SN-834977 ..... c 27 N87-23736 *
US-PATENT-APPL-SN-834978 ..... c 27 N86-24841 * #

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US-PATENT-APPL-SN-835059 ..... c 09 N71-26133 *
US-PATENT-APPL-SN-835060 ..... c 02 N71-26110 *
US-PATENT-APPL-SN-835146 ..... c 15 N70-33264 *
US-PATENT-APPL-SN-835152 ..... c 28 N70-38199 *
US-PATENT-APPL-SN-835153 ..... c 31 N71-17680 *
US-PATENT-APPL-SN-835419 ..... c 33 N80-18285 *
US-PATENT-APPL-SN-835544 ..... c 33 N79-14305 *
US-PATENT-APPL-SN-835628 ..... c 35 N79-14347 *
US-PATENT-APPL-SN-836280 ..... c 14 N73-14428 *
US-PATENT-APPL-SN-836280 ..... c 35 N75-25122 *
US-PATENT-APPL-SN-836367 ..... c 09 N71-24804 *
US-PATENT-APPL-SN-837259 ..... c 54 N79-24652 *
US-PATENT-APPL-SN-837260 ..... c 37 N78-27423 *
US-PATENT-APPL-SN-837377 ..... c 15 N71-26148 *
US-PATENT-APPL-SN-837378 ..... c 15 N71-24865 *
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US-PATENT-APPL-SN-837513 ..... c 44 N82-28780 *
US-PATENT-APPL-SN-837794 ..... c 28 N80-20402 *
US-PATENT-APPL-SN-837794 ..... c 28 N81-14103 *
US-PATENT-APPL-SN-837795 ..... c 36 N80-14384 *
US-PATENT-APPL-SN-837796 ..... c 35 N79-14345 *
US-PATENT-APPL-SN-837825 ..... c 15 N71-27006 *
US-PATENT-APPL-SN-837830 ..... c 02 N71-27088 *
US-PATENT-APPL-SN-83816 ..... c 44 N74-14784 *
US-PATENT-APPL-SN-838278 ..... c 60 N74-20836 *
US-PATENT-APPL-SN-838308 ..... c 52 N80-27072 *
US-PATENT-APPL-SN-838336 ..... c 44 N79-11470 *
US-PATENT-APPL-SN-838337 ..... c 31 N79-17029 *
US-PATENT-APPL-SN-838630 ..... c 14 N71-28993 *
US-PATENT-APPL-SN-838648 ..... c 33 N87-23879 *
US-PATENT-APPL-SN-838649 ..... c 34 N91-14562 *
US-PATENT-APPL-SN-838654 ..... c 27 N90-21198 *
US-PATENT-APPL-SN-838655 ..... c 27 N87-22848 *
US-PATENT-APPL-SN-839934 ..... c 07 N72-20140 *
US-PATENT-APPL-SN-839935 ..... c 15 N71-24895 *
US-PATENT-APPL-SN-839941 ..... c 07 N71-26181 *
US-PATENT-APPL-SN-839963 ..... c 27 N79-33316 *
US-PATENT-APPL-SN-839963 ..... c 27 N81-14078 *
US-PATENT-APPL-SN-839994 ..... c 28 N71-28915 *
US-PATENT-APPL-SN-84002 ..... c 08 N73-20217 *
US-PATENT-APPL-SN-840176 ..... c 28 N71-27095 *
US-PATENT-APPL-SN-840308 ..... c 07 N71-33613 *
US-PATENT-APPL-SN-840359 ..... c 23 N71-29125 *
US-PATENT-APPL-SN-840816 ..... c 27 N87-28657 *
US-PATENT-APPL-SN-840870 ..... c 15 N71-26189 *
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US-PATENT-APPL-SN-840983 ..... c 05 N70-33285 *
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US-PATENT-APPL-SN-841845 ..... c 14 N73-32317 *
US-PATENT-APPL-SN-84212 ..... c 27 N74-17283 *
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US-PATENT-APPL-SN-84289 ..... c 15 N73-14469 *
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US-PATENT-APPL-SN-843308 ..... c 32 N79-14268 *
US-PATENT-APPL-SN-844225 ..... c 05 N72-25120 *
US-PATENT-APPL-SN-844243 ..... c 37 N75-29426 *
US-PATENT-APPL-SN-844315 ..... c 35 N77-21392 *
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US-PATENT-APPL-SN-846428 ..... c 34 N87-21255 *
US-PATENT-APPL-SN-846429 ..... c 35 N88-29149 *
US-PATENT-APPL-SN-846430 ..... c 82 N87-29372 *
US-PATENT-APPL-SN-846439 ..... c 08 N87-23631 *
US-PATENT-APPL-SN-846462 ..... c 07 N87-16828 *
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US-PATENT-APPL-SN-847596 ..... c 15 N70-10867 * #
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US-PATENT-APPL-SN-848282 ..... c 15 N72-21462 *
US-PATENT-APPL-SN-848325 ..... c 06 N70-11251 * #
US-PATENT-APPL-SN-848351 ..... c 06 N70-11252 * #
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US-PATENT-APPL-SN-848419 ..... c 43 N80-23711 *
US-PATENT-APPL-SN-848420 ..... c 43 N79-25443 *
US-PATENT-APPL-SN-848421 ..... c 43 N80-14423 *
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US-PATENT-APPL-SN-852466 ..... c 37 N87-24689 *
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US-PATENT-APPL-SN-861391 ..... c 44 N79-12541 *
US-PATENT-APPL-SN-861392 ..... c 71 N79-23753 *
US-PATENT-APPL-SN-861396 ..... c 35 N79-14349 *
US-PATENT-APPL-SN-861649 ..... c 14 N72-17327 *
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US-PATENT-APPL-SN-862959 ..... c 33 N87-21232 *
US-PATENT-APPL-SN-863024 ..... c 46 N80-14603 *
US-PATENT-APPL-SN-863276 ..... c 16 N72-12440 *
US-PATENT-APPL-SN-863280 ..... c 24 N72-33681 *
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US-PATENT-APPL-SN-863770 ..... c 44 N79-18444 *
US-PATENT-APPL-SN-863773 ..... c 44 N79-26475 *
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US-PATENT-APPL-SN-864020 ..... c 15 N72-17454 *
US-PATENT-APPL-SN-864039 ..... c 15 N72-22483 *
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US-PATENT-APPL-SN-86417 ..... c 07 N72-25171 *
US-PATENT-APPL-SN-8650 ..... c 03 N72-25021 *
US-PATENT-APPL-SN-865106 ..... c 09 N72-22202 *
US-PATENT-APPL-SN-865109 ..... c 14 N71-28933 *
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US-PATENT-APPL-SN-865298 ..... c 15 N72-11388 *
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US-PATENT-APPL-SN-865811 ..... c 09 N71-27053 *
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US-PATENT-APPL-SN-868529 ..... c 08 N72-22167 *
US-PATENT-APPL-SN-868530 ..... c 05 N72-11084 *
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US-PATENT-APPL-SN-870689 ..... c 06 N72-25148 *
US-PATENT-APPL-SN-871207 ..... c 23 N86-32526 * #
US-PATENT-APPL-SN-87222 ..... c 05 N72-27103 *
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US-PATENT-APPL-SN-874733 ..... c 15 N71-26635 *
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US-PATENT-APPL-SN-87550 ..... c 06 N72-25146 *
US-PATENT-APPL-SN-87551 ..... c 33 N73-16918 *
US-PATENT-APPL-SN-875798 ..... c 37 N88-23978 *
US-PATENT-APPL-SN-875799 ..... c 34 N87-28867 *
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US-PATENT-APPL-SN-876431 ..... c 33 N79-24254 *
US-PATENT-APPL-SN-876432 ..... c 36 N80-18372 *
US-PATENT-APPL-SN-876438 ..... c 52 N79-26772 *
US-PATENT-APPL-SN-876440 ..... c 51 N80-16714 *
US-PATENT-APPL-SN-876441 ..... c 74 N79-20856 *
US-PATENT-APPL-SN-876588 ..... c 15 N72-25452 *
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US-PATENT-APPL-SN-877990 ..... c 14 N72-28437 *
US-PATENT-APPL-SN-878253 ..... c 25 N81-33246 *
US-PATENT-APPL-SN-878539 ..... c 35 N80-20560 *
US-PATENT-APPL-SN-878540 ..... c 24 N82-26384 *
US-PATENT-APPL-SN-878541 ..... c 33 N81-14220 *
US-PATENT-APPL-SN-878542 ..... c 33 N79-28416 *
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US-PATENT-APPL-SN-878731 ..... c 15 N71-26162 *
US-PATENT-APPL-SN-878916 ..... c 60 N87-14863 * #
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US-PATENT-APPL-SN-880247 ..... c 09 N70-20737 * #
US-PATENT-APPL-SN-880248 ..... c 07 N72-11150 *
US-PATENT-APPL-SN-880249 ..... c 15 N72-22482 *
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US-PATENT-APPL-SN-880271 ..... c 15 N72-25448 *
US-PATENT-APPL-SN-880272 ..... c 14 N71-27058 *

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US-PATENT-APPL-SN-880726 ..... c 44 N80-21828 *
US-PATENT-APPL-SN-880727 ..... c 35 N79-28527 *
US-PATENT-APPL-SN-880728 ..... c 37 N80-10494 *
US-PATENT-APPL-SN-880729 ..... c 35 N80-20563 *
US-PATENT-APPL-SN-880831 ..... c 11 N72-20244 *
US-PATENT-APPL-SN-880838 ..... c 37 N79-28549 *
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US-PATENT-APPL-SN-881041 ..... c 09 N72-22204 *
US-PATENT-APPL-SN-882122 ..... c 14 N72-22438 *
US-PATENT-APPL-SN-882577 ..... c 07 N71-27056 *
US-PATENT-APPL-SN-883090 ..... c 44 N80-29834 *
US-PATENT-APPL-SN-883094 ..... c 54 N79-24651 *
US-PATENT-APPL-SN-883523 ..... c 09 N72-33204 *
US-PATENT-APPL-SN-883524 ..... c 09 N72-21246 *
US-PATENT-APPL-SN-883961 ..... c 25 N80-16116 *
US-PATENT-APPL-SN-88435 ..... c 35 N74-15090 *
US-PATENT-APPL-SN-885049 ..... c 33 N79-23345 *
US-PATENT-APPL-SN-885065 ..... c 35 N79-18296 *
US-PATENT-APPL-SN-885066 ..... c 33 N80-26599 *
US-PATENT-APPL-SN-885067 ..... c 33 N79-28415 *
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US-PATENT-APPL-SN-885571 ..... c 09 N71-28886 *
US-PATENT-APPL-SN-885594 ..... c 15 N71-29133 *
US-PATENT-APPL-SN-886121 ..... c 39 N87-25601 *
US-PATENT-APPL-SN-886149 ..... c 27 N87-28656 *
US-PATENT-APPL-SN-886149 ..... c 27 N89-29538 *
US-PATENT-APPL-SN-887685 ..... c 10 N72-20223 *
US-PATENT-APPL-SN-887698 ..... c 09 N72-17153 *
US-PATENT-APPL-SN-887699 ..... c 15 N72-17452 *
US-PATENT-APPL-SN-887700 ..... c 07 N71-28980 *
US-PATENT-APPL-SN-887701 ..... c 08 N71-29034 *
US-PATENT-APPL-SN-888362 ..... c 33 N80-14330 *
US-PATENT-APPL-SN-888432 ..... c 74 N81-17886 *
US-PATENT-APPL-SN-888434 ..... c 51 N83-27569 *
US-PATENT-APPL-SN-889374 ..... c 08 N72-25207 *
US-PATENT-APPL-SN-889375 ..... c 10 N72-20222 *
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US-PATENT-APPL-SN-889387 ..... c 09 N71-29035 *
US-PATENT-APPL-SN-889420 ..... c 14 N72-25413 *
US-PATENT-APPL-SN-889422 ..... c 09 N72-25259 *
US-PATENT-APPL-SN-889423 ..... c 10 N72-22236 *
US-PATENT-APPL-SN-889437 ..... c 15 N72-11392 *
US-PATENT-APPL-SN-889438 ..... c 15 N72-18477 *
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US-PATENT-APPL-SN-889479 ..... c 14 N72-17325 *
US-PATENT-APPL-SN-889551 ..... c 21 N72-21624 *
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US-PATENT-APPL-SN-889556 ..... c 14 N72-18411 *
US-PATENT-APPL-SN-889557 ..... c 11 N72-17183 *
US-PATENT-APPL-SN-889558 ..... c 15 N72-22491 *
US-PATENT-APPL-SN-889583 ..... c 15 N72-21464 *
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US-PATENT-APPL-SN-889670 ..... c 39 N79-22537 *
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US-PATENT-APPL-SN-890445 ..... c 18 N87-27713 *
US-PATENT-APPL-SN-890575 ..... c 09 N87-25334 *
US-PATENT-APPL-SN-890577 ..... c 27 N88-29040 *
US-PATENT-APPL-SN-890586 ..... c 32 N87-15390 * #
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US-PATENT-APPL-SN-891372 ..... c 37 N79-22474 *
US-PATENT-APPL-SN-891373 ..... c 31 N80-18231 *
US-PATENT-APPL-SN-891872 ..... c 25 N82-24312 *
US-PATENT-APPL-SN-89209 ..... c 09 N72-25248 *
US-PATENT-APPL-SN-89210 ..... c 07 N73-26119 *
US-PATENT-APPL-SN-89211 ..... c 14 N73-12446 *
US-PATENT-APPL-SN-89212 ..... c 08 N72-25208 *
US-PATENT-APPL-SN-893382 ..... c 34 N79-24285 *
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US-PATENT-APPL-SN-893865 ..... c 37 N81-24443 *
US-PATENT-APPL-SN-893903 ..... c 60 N81-15706 *
US-PATENT-APPL-SN-894213 ..... c 37 N80-23655 *
US-PATENT-APPL-SN-894541 ..... c 54 N89-29953 *
US-PATENT-APPL-SN-897828 ..... c 52 N81-29763 *
US-PATENT-APPL-SN-897829 ..... c 44 N79-25481 *
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US-PATENT-APPL-SN-897840 ..... c 31 N81-14137 *
US-PATENT-APPL-SN-898449 ..... c 31 N88-29052 *
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US-PATENT-APPL-SN-899828 ..... c 32 N80-18252 *

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US-PATENT-APPL-SN-900842 ..... c 32 N79-24203 *
US-PATENT-APPL-SN-900843 ..... c 44 N80-20810 *
US-PATENT-APPL-SN-901055 ..... c 76 N80-32245 *
US-PATENT-APPL-SN-901113 ..... c 35 N87-28884 *
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US-PATENT-APPL-SN-901496 ..... c 23 N87-23698 *
US-PATENT-APPL-SN-903019 ..... c 46 N80-10709 *
US-PATENT-APPL-SN-904128 ..... c 25 N88-23845 *
US-PATENT-APPL-SN-904132 ..... c 02 N89-14224 *
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US-PATENT-APPL-SN-91180 ..... c 14 N70-40240 *
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US-PATENT-APPL-SN-916655 ..... c 44 N80-14472 *
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US-PATENT-APPL-SN-924467 ..... c 23 N88-24692 *
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US-PATENT-APPL-SN-943089 ..... c 74 N80-21140 *
US-PATENT-APPL-SN-943346 ..... c 34 N88-29132 *
US-PATENT-APPL-SN-94347 ..... c 05 N72-25122 *
US-PATENT-APPL-SN-94369 ..... c 07 N71-28965 * #
US-PATENT-APPL-SN-94374 ..... c 14 N72-25411 *
US-PATENT-APPL-SN-945040 ..... c 37 N82-24492 *
US-PATENT-APPL-SN-945041 ..... c 43 N80-18498 *
US-PATENT-APPL-SN-945043 ..... c 33 N81-33403 *
US-PATENT-APPL-SN-945044 ..... c 54 N81-26718 *
US-PATENT-APPL-SN-945436 ..... c 46 N80-24906 *
US-PATENT-APPL-SN-946990 ..... c 28 N80-23471 *
US-PATENT-APPL-SN-946991 ..... c 31 N81-27324 *
US-PATENT-APPL-SN-946992 ..... c 45 N80-14579 *
US-PATENT-APPL-SN-946994 ..... c 44 N79-31753 *
US-PATENT-APPL-SN-947000 ..... c 28 N81-15119 *
US-PATENT-APPL-SN-94952 ..... c 14 N70-34158 *
US-PATENT-APPL-SN-949886 ..... c 33 N80-18285 *
US-PATENT-APPL-SN-950876 ..... c 37 N80-31790 *
US-PATENT-APPL-SN-950877 ..... c 52 N81-25660 *
US-PATENT-APPL-SN-951422 ..... c 51 N81-14605 *
US-PATENT-APPL-SN-951423 ..... c 48 N80-18667 *
US-PATENT-APPL-SN-951828 ..... c 37 N80-29703 *
US-PATENT-APPL-SN-951829 ..... c 33 N80-18287 *
US-PATENT-APPL-SN-951830 ..... c 28 N80-28536 *
US-PATENT-APPL-SN-95183 ..... c 08 N73-12175 *
US-PATENT-APPL-SN-95189 ..... c 74 N77-21941 *
US-PATENT-APPL-SN-953313 ..... c 32 N81-14187 *
US-PATENT-APPL-SN-953314 ..... c 37 N81-14319 *
US-PATENT-APPL-SN-953389 ..... c 74 N80-27185 *
US-PATENT-APPL-SN-953390 ..... c 74 N80-21138 *
US-PATENT-APPL-SN-953391 ..... c 72 N80-33186 *
US-PATENT-APPL-SN-956160 ..... c 32 N80-18253 *
US-PATENT-APPL-SN-956161 ..... c 27 N79-11215 * #
US-PATENT-APPL-SN-956166 ..... c 33 N81-19393 *
US-PATENT-APPL-SN-956168 ..... c 27 N81-25209 *
US-PATENT-APPL-SN-956529 ..... c 35 N80-26635 *
US-PATENT-APPL-SN-957452 ..... c 32 N80-24510 *
US-PATENT-APPL-SN-958573 ..... c 25 N80-20334 *
US-PATENT-APPL-SN-958575 ..... c 27 N80-24437 *
US-PATENT-APPL-SN-961831 ..... c 33 N81-25299 *
US-PATENT-APPL-SN-961832 ..... c 37 N81-24442 *
US-PATENT-APPL-SN-961833 ..... c 37 N82-21587 *
US-PATENT-APPL-SN-964009 ..... c 02 N80-20224 *
US-PATENT-APPL-SN-964754 ..... c 33 N80-20487 *
US-PATENT-APPL-SN-964754 ..... c 44 N81-29524 *
US-PATENT-APPL-SN-965367 ..... c 33 N81-14221 *
US-PATENT-APPL-SN-965368 ..... c 74 N81-17888 *
US-PATENT-APPL-SN-969755 ..... c 05 N81-19087 *
US-PATENT-APPL-SN-969756 ..... c 37 N81-14317 *
US-PATENT-APPL-SN-969757 ..... c 24 N84-16262 *
US-PATENT-APPL-SN-969759 ..... c 25 N82-11144 *
US-PATENT-APPL-SN-969760 ..... c 39 N81-25400 *
US-PATENT-APPL-SN-969761 ..... c 32 N82-12297 *
US-PATENT-APPL-SN-969762 ..... c 33 N82-29539 *
US-PATENT-APPL-SN-97112 ..... c 21 N70-34539 *
US-PATENT-APPL-SN-971473 ..... c 23 N81-29160 *
US-PATENT-APPL-SN-971474 ..... c 20 N82-18314 *
US-PATENT-APPL-SN-971475 ..... c 27 N81-24257 *
US-PATENT-APPL-SN-971596 ..... c 27 N80-32516 *
US-PATENT-APPL-SN-972252 ..... c 35 N81-33448 *
US-PATENT-APPL-SN-97343 ..... c 10 N72-27246 *
US-PATENT-APPL-SN-974292 ..... c 26 N80-23419 *
US-PATENT-APPL-SN-974471 ..... c 32 N81-14185 *
US-PATENT-APPL-SN-974472 ..... c 37 N81-15363 *
US-PATENT-APPL-SN-974473 ..... c 60 N81-27814 *
US-PATENT-APPL-SN-974474 ..... c 25 N81-19242 *

US-PATENT-APPL-SN-974475 ..... c 33 N81-17349 *
US-PATENT-APPL-SN-974476 ..... c 52 N81-14613 *
US-PATENT-APPL-SN-97472 ..... c 14 N73-28487 *
US-PATENT-APPL-SN-97829 ..... c 06 N73-13129 *
US-PATENT-APPL-SN-98517 ..... c 09 N72-25250 *
US-PATENT-APPL-SN-98640 ..... c 09 N72-25253 *
US-PATENT-APPL-SN-98772 ..... c 08 N73-12176 *
US-PATENT-APPL-SN-98773 ..... c 15 N72-22486 *
US-PATENT-APPL-SN-98774 ..... c 14 N73-19419 *
US-PATENT-APPL-SN-98798 ..... c 09 N73-13209 *
US-PATENT-APPL-SN-99174 ..... c 14 N72-33377 *
US-PATENT-APPL-SN-99175 ..... c 09 N72-25258 *
US-PATENT-APPL-SN-99198 ..... c 31 N73-32749 *
US-PATENT-APPL-SN-99201 ..... c 15 N73-25512 *
US-PATENT-APPL-SN-99201 ..... c 37 N74-20063 *
US-PATENT-APPL-SN-99524 ..... c 06 N72-27144 *
US-PATENT-APPL-SN-99901 ..... c 37 N74-10474 *
US-PATENT-APPL-SN-99903 ..... c 11 N73-12265 *

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US-PATENT-CASE-179-146-R ..... c 05 N83-27975 *
US-PATENT-CASE-179-179 ..... c 05 N83-27975 *
US-PATENT-CASE-244-121 ..... c 05 N83-19737 *
US-PATENT-CASE-244-129.4 ..... c 05 N83-19737 *
US-PATENT-CASE-292-254 ..... c 05 N83-19737 *
US-PATENT-CASE-356-129 ..... c 36 N83-29680 *
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US-PATENT-CASE-368-10 ..... c 35 N83-29651 *
US-PATENT-CASE-368-118 ..... c 35 N83-29651 *
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US-PATENT-CLAS-165-27 ..... c 34 N83-34221 *
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US-PATENT-CLASS-D12-76 ..... c 05 N75-25914 *
US-PATENT-CLASS-D71-1 ..... c 05 N74-10907 *

US-PATENT-CLASS-073-801 ..... c 26 N90-21170 *
US-PATENT-CLASS-100-299 ..... c 15 N72-20446 *
US-PATENT-CLASS-100-8 ..... c 33 N74-17928 *
US-PATENT-CLASS-101-395 ..... c 35 N84-22930 *
US-PATENT-CLASS-101-407BP .. c 37 N84-12491 *
US-PATENT-CLASS-102-101 ..... c 28 N71-26779 *
US-PATENT-CLASS-102-103 ..... c 20 N78-32179 *
US-PATENT-CLASS-102-105 ..... c 33 N72-17947 *
US-PATENT-CLASS-102-105 ..... c 33 N72-25911 *
US-PATENT-CLASS-102-105 ..... c 33 N73-25952 *
US-PATENT-CLASS-102-105 ..... c 27 N74-27037 *
US-PATENT-CLASS-102-105 ..... c 24 N79-25142 *
US-PATENT-CLASS-102-200 ..... c 25 N91-32196 *
US-PATENT-CLASS-102-21.6 ..... c 46 N79-22679 *
US-PATENT-CLASS-102-262 ..... c 03 N91-15142 *
US-PATENT-CLASS-102-28EB .... c 28 N74-27425 *
US-PATENT-CLASS-102-28R ..... c 28 N79-11231 *
US-PATENT-CLASS-102-289 ..... c 27 N82-24339 *
US-PATENT-CLASS-102-34.4 ..... c 07 N72-25171 *
US-PATENT-CLASS-102-378 ..... c 01 N83-35992 *
US-PATENT-CLASS-102-378 ..... c 37 N90-21390 *
US-PATENT-CLASS-102-378 ..... c 37 N91-32498 *
US-PATENT-CLASS-102-39 ..... c 20 N78-24275 *
US-PATENT-CLASS-102-49.3 ..... c 20 N77-17143 *
US-PATENT-CLASS-102-49.5 ..... c 31 N71-15687 *
US-PATENT-CLASS-102-49.5 ..... c 15 N71-22874 *
US-PATENT-CLASS-102-49.5 ..... c 31 N71-23008 *
US-PATENT-CLASS-102-49.5 ..... c 31 N73-14853 *
US-PATENT-CLASS-102-49.7 ..... c 28 N73-24784 *
US-PATENT-CLASS-102-49.7 ..... c 20 N78-24275 *
US-PATENT-CLASS-102-49.8 ..... c 28 N73-24784 *
US-PATENT-CLASS-102-49 ..... c 33 N70-36846 *
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US-PATENT-CLASS-102-49 ..... c 03 N70-39930 *
US-PATENT-CLASS-102-49 ..... c 15 N70-41679 *
US-PATENT-CLASS-102-49 ..... c 28 N70-41967 *
US-PATENT-CLASS-102-49 ..... c 31 N71-10582 *
US-PATENT-CLASS-102-49 ..... c 15 N71-13789 *
US-PATENT-CLASS-102-49 ..... c 31 N71-15692 *
US-PATENT-CLASS-102-49 ..... c 31 N71-17730 *
US-PATENT-CLASS-102-504 ..... c 15 N82-24272 *
US-PATENT-CLASS-102-50 ..... c 31 N71-24750 *
US-PATENT-CLASS-102-56R ..... c 02 N81-14968 *
US-PATENT-CLASS-102-70.2A ... c 28 N74-27425 *
US-PATENT-CLASS-102-70.2R ... c 19 N74-15089 *
US-PATENT-CLASS-102-70.2 ..... c 09 N71-18599 *
US-PATENT-CLASS-102-70-2R ... c 28 N74-27425 *
US-PATENT-CLASS-102-70R ..... c 20 N78-24275 *
US-PATENT-CLASS-102-90 ..... c 15 N74-27360 *

US-PATENT-CLASS-102-92.1 ..... c 02 N81-14968 *
US-PATENT-CLASS-102-95 ..... c 11 N73-32152 *
US-PATENT-CLASS-102-99 ..... c 28 N77-10213 *
US-PATENT-CLASS-103.5R ..... c 04 N73-27052 *
US-PATENT-CLASS-103-1 ..... c 26 N71-21824 *
US-PATENT-CLASS-103-37 ..... c 28 N71-14058 *
US-PATENT-CLASS-103-48 ..... c 15 N71-24042 *
US-PATENT-CLASS-104-DIG.4 .... c 44 N84-23019 *
US-PATENT-CLASS-104-138R .... c 85 N74-34672 *
US-PATENT-CLASS-104-139 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-172.1 .... c 18 N88-26398 *
US-PATENT-CLASS-104-1 ..... c 05 N71-28619 *
US-PATENT-CLASS-104-23FS .... c 85 N74-34672 *
US-PATENT-CLASS-104-281 ..... c 37 N85-20337 *
US-PATENT-CLASS-104-282 ..... c 37 N83-32067 *
US-PATENT-CLASS-104-284 ..... c 37 N85-20337 *
US-PATENT-CLASS-104-290 ..... c 37 N83-32067 *
US-PATENT-CLASS-104-35 ..... c 18 N88-26398 *
US-PATENT-CLASS-104-49 ..... c 18 N88-26398 *
US-PATENT-CLASS-104-83 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-1A ..... c 37 N82-21587 *
US-PATENT-CLASS-105-124 ..... c 37 N91-32514 *
US-PATENT-CLASS-105-141 ..... c 37 N91-32514 *
US-PATENT-CLASS-105-142 ..... c 37 N91-32514 *
US-PATENT-CLASS-105-161 ..... c 43 N79-26439 *
US-PATENT-CLASS-105-171 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-180 ..... c 37 N82-21587 *
US-PATENT-CLASS-105-2R ..... c 85 N82-33288 *
US-PATENT-CLASS-105-218R .... c 37 N82-21587 *
US-PATENT-CLASS-105-87 ..... c 37 N91-32514 *
US-PATENT-CLASS-106-1.2 ..... c 44 N79-31752 *
US-PATENT-CLASS-106-13 ..... c 23 N75-14834 *
US-PATENT-CLASS-106-15FP .... c 27 N74-27037 *
US-PATENT-CLASS-106-15FP .... c 27 N76-24405 *
US-PATENT-CLASS-106-15FP .... c 24 N78-15180 *
US-PATENT-CLASS-106-15R ..... c 23 N75-14834 *
US-PATENT-CLASS-106-15 ..... c 18 N71-14014 *
US-PATENT-CLASS-106-15 ..... c 18 N71-15469 *
US-PATENT-CLASS-106-18.16 .... c 27 N82-16238 *
US-PATENT-CLASS-106-18.24 .... c 27 N82-16238 *
US-PATENT-CLASS-106-197 ..... c 25 N82-29370 *
US-PATENT-CLASS-106-1 ..... c 44 N79-31752 *
US-PATENT-CLASS-106-209 ..... c 05 N72-25120 *
US-PATENT-CLASS-106-286 ..... c 18 N72-22566 *
US-PATENT-CLASS-106-287SB .. c 23 N75-14834 *
US-PATENT-CLASS-106-288B .... c 18 N72-22566 *
US-PATENT-CLASS-106-292 ..... c 18 N72-17532 *
US-PATENT-CLASS-106-292 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-296 ..... c 18 N71-26772 *
US-PATENT-CLASS-106-296 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-296 ..... c 24 N79-14156 *
US-PATENT-CLASS-106-299 ..... c 18 N72-17532 *
US-PATENT-CLASS-106-299 ..... c 27 N77-30237 *
US-PATENT-CLASS-106-306 ..... c 24 N76-24363 *
US-PATENT-CLASS-106-39.5 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-39R ..... c 18 N73-14584 *
US-PATENT-CLASS-106-39 ..... c 26 N72-28762 *
US-PATENT-CLASS-106-40 ..... c 18 N71-22998 *
US-PATENT-CLASS-106-43 ..... c 27 N78-17206 *
US-PATENT-CLASS-106-43 ..... c 37 N81-25371 *
US-PATENT-CLASS-106-46 ..... c 26 N72-28762 *
US-PATENT-CLASS-106-48 ..... c 27 N75-27160 *
US-PATENT-CLASS-106-48 ..... c 27 N78-32260 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29452 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29454 *
US-PATENT-CLASS-106-50 ..... c 27 N82-29455 *
US-PATENT-CLASS-106-52 ..... c 37 N74-21063 *
US-PATENT-CLASS-106-52 ..... c 27 N82-29451 *
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US-PATENT-CLASS-106-52 ..... c 27 N82-29455 *
US-PATENT-CLASS-106-54 ..... c 27 N75-27160 *
US-PATENT-CLASS-106-54 ..... c 27 N76-22377 *
US-PATENT-CLASS-106-54 ..... c 27 N76-23426 *
US-PATENT-CLASS-106-54 ..... c 27 N78-32260 *
US-PATENT-CLASS-106-54 ..... c 27 N82-29452 *
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US-PATENT-CLASS-106-55 ..... c 18 N73-14584 *
US-PATENT-CLASS-106-58 ..... c 18 N73-14584 *
US-PATENT-CLASS-106-63 ..... c 18 N73-14584 *
US-PATENT-CLASS-106-65 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-73.5 ..... c 27 N78-19302 *
US-PATENT-CLASS-106-74 ..... c 18 N69-39979 * #
US-PATENT-CLASS-106-74 ..... c 24 N79-31347 *
US-PATENT-CLASS-106-84 ..... c 18 N71-24183 *
US-PATENT-CLASS-106-84 ..... c 18 N71-24184 *
US-PATENT-CLASS-106-84 ..... c 18 N72-22566 *
US-PATENT-CLASS-106-84 ..... c 18 N72-23581 *
US-PATENT-CLASS-106-84 ..... c 24 N79-14156 *
US-PATENT-CLASS-106-84 ..... c 24 N79-31347 *
US-PATENT-CLASS-106-88 ..... c 18 N71-16124 *
US-PATENT-CLASS-108-136 ..... c 09 N75-12968 *
US-PATENT-CLASS-108-3 ..... c 54 N88-24163 *
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US-PATENT-CLASS-109-49.5 ..... c 31 N81-19343 *
US-PATENT-CLASS-109-58.5 ..... c 31 N81-19343 *

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US-PATENT-CLASS-110-171 ..... c 31 N91-15423 *
US-PATENT-CLASS-110-186 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-218 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-229 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-232 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-234 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-245 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-255 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-259 ..... c 31 N91-15423 *
US-PATENT-CLASS-110-262 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-263 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-265 ..... c 25 N84-16276 *
US-PATENT-CLASS-110-266 ..... c 25 N82-11144 *
US-PATENT-CLASS-110-343 ..... c 31 N81-15154 *
US-PATENT-CLASS-110-347 ..... c 31 N81-15154 *
US-PATENT-CLASS-112-402 ..... c 18 N71-26285 *
US-PATENT-CLASS-112-440 ..... c 24 N91-31236 *
US-PATENT-CLASS-113-116 ..... c 15 N71-15597 *
US-PATENT-CLASS-114-112 ..... c 18 N90-19278 *
US-PATENT-CLASS-114-122 ..... c 02 N73-26006 *
US-PATENT-CLASS-114-122 ..... c 34 N91-25380 *
US-PATENT-CLASS-114-125 ..... c 34 N91-25380 *
US-PATENT-CLASS-114-16.6 ..... c 37 N76-22540 *
US-PATENT-CLASS-114-201R .... c 18 N90-19278 *
US-PATENT-CLASS-114-66.5 ..... c 12 N70-33305 *
US-PATENT-CLASS-114-67A ..... c 34 N91-14562 *
US-PATENT-CLASS-114-67R ..... c 02 N88-14071 *
US-PATENT-CLASS-115-103.5 .... c 51 N75-13502 *
US-PATENT-CLASS-116-DIG.43 . c 02 N89-12551 *
US-PATENT-CLASS-116-114.5 .... c 35 N75-25122 *
US-PATENT-CLASS-116-114AH .. c 14 N72-25411 *
US-PATENT-CLASS-116-114AH .. c 35 N75-33367 *
US-PATENT-CLASS-116-117 ..... c 14 N70-42074 *
US-PATENT-CLASS-116-265 ..... c 02 N89-12551 *
US-PATENT-CLASS-117-104 ..... c 18 N71-26100 *
US-PATENT-CLASS-117-105.2 .... c 37 N74-11301 *
US-PATENT-CLASS-117-105.2 .... c 24 N75-33181 *
US-PATENT-CLASS-117-105.5 .... c 15 N73-32360 *
US-PATENT-CLASS-117-105 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-106A .... c 70 N74-13436 *
US-PATENT-CLASS-117-106A .... c 37 N75-15992 *
US-PATENT-CLASS-117-106A .... c 25 N75-26043 *
US-PATENT-CLASS-117-106 ..... c 33 N71-14032 *
US-PATENT-CLASS-117-107.2 .... c 25 N75-26043 *
US-PATENT-CLASS-117-107 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-107 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-119 ..... c 18 N71-16105 *
US-PATENT-CLASS-117-119 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-124C .... c 15 N72-25452 *
US-PATENT-CLASS-117-124F ..... c 23 N75-14834 *
US-PATENT-CLASS-117-126GM . c 37 N75-26371 *
US-PATENT-CLASS-117-126GR . c 27 N74-23125 *
US-PATENT-CLASS-117-126R .... c 37 N75-26371 *
US-PATENT-CLASS-117-129 ..... c 37 N74-21063 *
US-PATENT-CLASS-117-129 ..... c 27 N75-27160 *
US-PATENT-CLASS-117-130R .... c 15 N73-32360 *
US-PATENT-CLASS-117-132B .... c 27 N74-23125 *
US-PATENT-CLASS-117-132 ..... c 06 N72-25150 *
US-PATENT-CLASS-117-135.5 .... c 23 N75-14834 *
US-PATENT-CLASS-117-138.8R . c 15 N73-32360 *
US-PATENT-CLASS-117-151 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-152 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-16R ..... c 15 N72-25452 *
US-PATENT-CLASS-117-160R .... c 15 N73-32360 *
US-PATENT-CLASS-117-161P .... c 06 N73-27980 *
US-PATENT-CLASS-117-161UA .. c 25 N75-12087 *
US-PATENT-CLASS-117-161UN . c 06 N73-27980 *
US-PATENT-CLASS-117-161UN . c 27 N74-23125 *
US-PATENT-CLASS-117-161UN . c 25 N75-12087 *
US-PATENT-CLASS-117-161UZ .. c 25 N75-12087 *
US-PATENT-CLASS-117-161 ..... c 06 N72-25150 *
US-PATENT-CLASS-117-2R ..... c 32 N74-27612 *
US-PATENT-CLASS-117-200 ..... c 09 N72-25259 *
US-PATENT-CLASS-117-201 ..... c 15 N69-21460 * #
US-PATENT-CLASS-117-201 ..... c 18 N71-16046 *
US-PATENT-CLASS-117-201 ..... c 03 N72-24037 *
US-PATENT-CLASS-117-201 ..... c 25 N75-26043 *
US-PATENT-CLASS-117-211 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-212 ..... c 09 N71-20705 *
US-PATENT-CLASS-117-212 ..... c 15 N71-29032 *
US-PATENT-CLASS-117-212 ..... c 26 N72-28762 *
US-PATENT-CLASS-117-217 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-217 ..... c 26 N72-28762 *
US-PATENT-CLASS-117-21 ..... c 18 N69-39895 * #
US-PATENT-CLASS-117-224 ..... c 15 N71-28582 *
US-PATENT-CLASS-117-228 ..... c 06 N73-27980 *
US-PATENT-CLASS-117-234 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-235 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-237 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-239 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-240 ..... c 76 N79-16678 *
US-PATENT-CLASS-117-33.3 .... c 70 N74-13436 *
US-PATENT-CLASS-117-35R ..... c 06 N73-13128 *
US-PATENT-CLASS-117-35 ..... c 32 N79-19186 *
US-PATENT-CLASS-117-37 ..... c 15 N72-25452 *

US-PATENT-CLASS-117-38 ..... c 24 N75-33181 *
US-PATENT-CLASS-117-43 ..... c 31 N79-21227 *
US-PATENT-CLASS-117-45 ..... c 74 N74-20008 *
US-PATENT-CLASS-117-46FS .... c 24 N75-33181 *
US-PATENT-CLASS-117-46 ..... c 15 N71-16077 *
US-PATENT-CLASS-117-47R ..... c 15 N72-25452 *
US-PATENT-CLASS-117-50 ..... c 15 N71-15610 *
US-PATENT-CLASS-117-62 ..... c 15 N72-25447 *
US-PATENT-CLASS-117-62 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-65.2 ..... c 18 N71-10772 *
US-PATENT-CLASS-117-66 ..... c 15 N73-32360 *
US-PATENT-CLASS-117-69 ..... c 18 N70-36400 *
US-PATENT-CLASS-117-69 ..... c 15 N71-16075 *
US-PATENT-CLASS-117-6 ..... c 14 N71-20461 *
US-PATENT-CLASS-117-6 ..... c 27 N81-15104 *
US-PATENT-CLASS-117-72 ..... c 35 N75-25122 *
US-PATENT-CLASS-117-8.5 ..... c 24 N75-33181 *
US-PATENT-CLASS-117-93.1GD c 25 N75-12087 *
US-PATENT-CLASS-117-93.16D . c 15 N72-25447 *
US-PATENT-CLASS-117-93.3 ..... c 15 N72-25452 *
US-PATENT-CLASS-117-93.3 ..... c 37 N75-15992 *
US-PATENT-CLASS-117-95 ..... c 24 N74-19769 *
US-PATENT-CLASS-117-95 ..... c 36 N75-15029 *
US-PATENT-CLASS-117-97 ..... c 36 N75-15029 *
US-PATENT-CLASS-118-11 ..... c 15 N71-17647 *
US-PATENT-CLASS-118-300 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-308 ..... c 17 N71-24911 *
US-PATENT-CLASS-118-313 ..... c 51 N77-27677 *
US-PATENT-CLASS-118-320 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-405 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-407 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-419 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-423 ..... c 37 N82-12441 *
US-PATENT-CLASS-118-428 ..... c 76 N91-15898 *
US-PATENT-CLASS-118-43 ..... c 25 N75-29192 *
US-PATENT-CLASS-118-48 ..... c 25 N75-26043 *
US-PATENT-CLASS-118-49.1 ..... c 15 N72-32487 *
US-PATENT-CLASS-118-49.1 ..... c 31 N75-12161 *
US-PATENT-CLASS-118-49.1 ..... c 25 N75-26043 *
US-PATENT-CLASS-118-49.5 ..... c 09 N71-26701 *
US-PATENT-CLASS-118-49 ..... c 25 N79-28253 *
US-PATENT-CLASS-118-50.1 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-50.1 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-500 ..... c 37 N78-17383 *
US-PATENT-CLASS-118-500 ..... c 37 N82-12441 *
US-PATENT-CLASS-118-500 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-500 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-503 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-505 ..... c 37 N82-24492 *
US-PATENT-CLASS-118-50 ..... c 37 N78-17383 *
US-PATENT-CLASS-118-50 ..... c 37 N81-33482 *
US-PATENT-CLASS-118-50 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-52 ..... c 37 N81-33482 *
US-PATENT-CLASS-118-57 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-624 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-62 ..... c 71 N84-16940 *
US-PATENT-CLASS-118-641 ..... c 36 N84-22944 *
US-PATENT-CLASS-118-6 ..... c 51 N77-27677 *
US-PATENT-CLASS-118-7 ..... c 51 N77-27677 *
US-PATENT-CLASS-118-9 ..... c 51 N77-27677 *
US-PATENT-CLASS-119-15 ..... c 11 N71-22875 *
US-PATENT-CLASS-119-17 ..... c 51 N81-32829 *
US-PATENT-CLASS-119-18 ..... c 51 N81-32829 *
US-PATENT-CLASS-119-29 ..... c 51 N78-27733 *
US-PATENT-CLASS-119-51.11 .... c 35 N78-19466 *
US-PATENT-CLASS-119-51.13 .... c 51 N74-15778 *
US-PATENT-CLASS-119-51.5 ..... c 51 N74-15778 *
US-PATENT-CLASS-119-51R ..... c 51 N74-15778 *
US-PATENT-CLASS-119-52AF .... c 51 N74-15778 *
US-PATENT-CLASS-119-54 ..... c 51 N74-15778 *
US-PATENT-CLASS-119-72.5 ..... c 35 N78-19466 *
US-PATENT-CLASS-119-96 ..... c 05 N71-28619 *
US-PATENT-CLASS-121-38 ..... c 15 N70-35409 *
US-PATENT-CLASS-121-38 ..... c 02 N71-29128 *
US-PATENT-CLASS-122-32 ..... c 33 N72-20915 *
US-PATENT-CLASS-122-366 ..... c 34 N85-29180 *
US-PATENT-CLASS-122-366 ..... c 34 N86-27593 *
US-PATENT-CLASS-122-366 ..... c 34 N88-29133 *
US-PATENT-CLASS-122-366 ..... c 34 N89-14392 *
US-PATENT-CLASS-122-366 ..... c 27 N90-23541 *
US-PATENT-CLASS-122-366 ..... c 31 N90-23587 *
US-PATENT-CLASS-122-4D ..... c 25 N82-11144 *
US-PATENT-CLASS-123-DIG.12 . c 37 N76-18457 *
US-PATENT-CLASS-123-DIG.12 . c 44 N78-33526 *
US-PATENT-CLASS-123-DIG.12 . c 28 N80-10374 *
US-PATENT-CLASS-123-DIG.8 .... c 37 N77-31497 *
US-PATENT-CLASS-123-1A ..... c 44 N76-29700 *
US-PATENT-CLASS-123-1A ..... c 44 N78-33526 *
US-PATENT-CLASS-123-102 ..... c 11 N72-20244 *
US-PATENT-CLASS-123-119A .... c 37 N77-31497 *
US-PATENT-CLASS-123-119E .... c 37 N76-18457 *
US-PATENT-CLASS-123-120 ..... c 37 N76-18457 *
US-PATENT-CLASS-123-121 ..... c 37 N76-18457 *
US-PATENT-CLASS-123-122AB .. c 28 N72-22772 *
US-PATENT-CLASS-123-122AB .. c 37 N77-31497 *
US-PATENT-CLASS-123-122E ..... c 07 N77-23106 *
US-PATENT-CLASS-123-122E ..... c 37 N78-10467 *
US-PATENT-CLASS-123-148CB .. c 33 N77-28385 *
US-PATENT-CLASS-123-148DC .. c 37 N79-11405 *
US-PATENT-CLASS-123-148E ..... c 33 N77-28385 *
US-PATENT-CLASS-123-148E ..... c 37 N79-11405 *
US-PATENT-CLASS-123-179R .... c 28 N80-10374 *
US-PATENT-CLASS-123-193-P ... c 37 N88-23981 *
US-PATENT-CLASS-123-193P ..... c 37 N90-22042 *
US-PATENT-CLASS-123-197R ..... c 37 N83-36483 *
US-PATENT-CLASS-123-37 ..... c 37 N77-31497 *
US-PATENT-CLASS-123-3 ..... c 44 N76-18642 *
US-PATENT-CLASS-123-3 ..... c 44 N76-29700 *
US-PATENT-CLASS-123-3 ..... c 44 N77-10636 *
US-PATENT-CLASS-123-3 ..... c 37 N77-31497 *
US-PATENT-CLASS-123-3 ..... c 44 N78-33526 *
US-PATENT-CLASS-123-3 ..... c 28 N80-10374 *
US-PATENT-CLASS-123-41.33 .... c 07 N77-23106 *
US-PATENT-CLASS-123-41.33 .... c 37 N78-10467 *
US-PATENT-CLASS-123-59E ..... c 37 N77-31497 *
US-PATENT-CLASS-123-78E ..... c 37 N83-36483 *
US-PATENT-CLASS-123-89A ..... c 37 N76-18457 *
US-PATENT-CLASS-124-11R ..... c 75 N76-17951 *
US-PATENT-CLASS-124-1 ..... c 75 N76-17951 *
US-PATENT-CLASS-124-56 ..... c 18 N86-20469 *
US-PATENT-CLASS-124-6 ..... c 09 N77-19076 *
US-PATENT-CLASS-125-13R ..... c 37 N85-21650 *
US-PATENT-CLASS-125-15 ..... c 37 N85-21650 *
US-PATENT-CLASS-125-1 ..... c 46 N74-23069 *
US-PATENT-CLASS-125-20 ..... c 31 N83-27058 *
US-PATENT-CLASS-125-21 ..... c 37 N80-29703 *
US-PATENT-CLASS-125-23R ..... c 76 N80-18951 *
US-PATENT-CLASS-125-23R ..... c 37 N82-32730 *
US-PATENT-CLASS-125-3 ..... c 46 N74-23069 *
US-PATENT-CLASS-126-DIG.1 .... c 44 N85-30474 *
US-PATENT-CLASS-126-263 ..... c 44 N77-32581 *
US-PATENT-CLASS-126-263 ..... c 44 N78-17460 *
US-PATENT-CLASS-126-263 ..... c 44 N80-20808 *
US-PATENT-CLASS-126-263 ..... c 35 N85-29214 *
US-PATENT-CLASS-126-270 ..... c 09 N70-40234 *
US-PATENT-CLASS-126-270 ..... c 03 N70-41580 *
US-PATENT-CLASS-126-270 ..... c 34 N74-23039 *
US-PATENT-CLASS-126-270 ..... c 44 N76-14595 *
US-PATENT-CLASS-126-270 ..... c 44 N76-23675 *
US-PATENT-CLASS-126-270 ..... c 44 N76-24696 *
US-PATENT-CLASS-126-270 ..... c 35 N77-20401 *
US-PATENT-CLASS-126-270 ..... c 44 N77-32582 *
US-PATENT-CLASS-126-270 ..... c 44 N78-15560 *
US-PATENT-CLASS-126-270 ..... c 44 N78-19599 *
US-PATENT-CLASS-126-270 ..... c 44 N78-31526 *
US-PATENT-CLASS-126-270 ..... c 44 N79-11471 *
US-PATENT-CLASS-126-270 ..... c 44 N79-14526 *
US-PATENT-CLASS-126-270 ..... c 44 N79-23481 *
US-PATENT-CLASS-126-270 ..... c 44 N79-24432 *
US-PATENT-CLASS-126-271 ..... c 44 N75-32581 *
US-PATENT-CLASS-126-271 ..... c 44 N76-14602 *
US-PATENT-CLASS-126-271 ..... c 44 N76-22657 *
US-PATENT-CLASS-126-271 ..... c 44 N76-24696 *
US-PATENT-CLASS-126-271 ..... c 35 N77-20401 *
US-PATENT-CLASS-126-271 ..... c 44 N77-32582 *
US-PATENT-CLASS-126-271 ..... c 44 N78-10554 *
US-PATENT-CLASS-126-271 ..... c 44 N78-17460 *
US-PATENT-CLASS-126-271 ..... c 44 N78-31525 *
US-PATENT-CLASS-126-271 ..... c 44 N78-31526 *
US-PATENT-CLASS-126-271 ..... c 44 N79-11471 *
US-PATENT-CLASS-126-271 ..... c 44 N79-14526 *
US-PATENT-CLASS-126-271 ..... c 44 N79-14529 *
US-PATENT-CLASS-126-271 ..... c 44 N79-18443 *
US-PATENT-CLASS-126-271 ..... c 44 N79-23481 *
US-PATENT-CLASS-126-271 ..... c 44 N79-24433 *
US-PATENT-CLASS-126-400 ..... c 44 N78-15560 *
US-PATENT-CLASS-126-400 ..... c 44 N79-24433 *
US-PATENT-CLASS-126-400 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-415 ..... c 44 N84-34792 *
US-PATENT-CLASS-126-415 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-417 ..... c 44 N80-16452 *
US-PATENT-CLASS-126-417 ..... c 34 N84-22903 *
US-PATENT-CLASS-126-418 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-418 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-419 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-419 ..... c 44 N81-17518 *
US-PATENT-CLASS-126-419 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-419 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-419 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-422 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-423 ..... c 34 N88-23958 *
US-PATENT-CLASS-126-425 ..... c 44 N88-14492 *
US-PATENT-CLASS-126-429 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-430 ..... c 44 N82-18686 *
US-PATENT-CLASS-126-434 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-437 ..... c 44 N80-20810 *
US-PATENT-CLASS-126-438 ..... c 44 N80-14473 *
US-PATENT-CLASS-126-438 ..... c 44 N82-16475 *
US-PATENT-CLASS-126-438 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-438 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-438 ..... c 44 N86-27706 *
US-PATENT-CLASS-126-440 ..... c 44 N84-28204 *
US-PATENT-CLASS-126-442 ..... c 44 N80-14473 *
US-PATENT-CLASS-126-443 ..... c 35 N89-12048 *
US-PATENT-CLASS-126-451 ..... c 44 N84-28203 *
US-PATENT-CLASS-126-900 ..... c 44 N85-30474 *
US-PATENT-CLASS-126-901 ..... c 44 N80-16452 *
US-PATENT-CLASS-126-901 ..... c 44 N83-34449 *
US-PATENT-CLASS-126-901 ..... c 35 N89-12048 *
US-PATENT-CLASS-126-91A ..... c 25 N79-11151 *
US-PATENT-CLASS-128.2.06E .... c 05 N75-24716 *
US-PATENT-CLASS-128.2.07 ..... c 52 N79-21750 *
US-PATENT-CLASS-128-DIG.12 . c 37 N77-28487 *
US-PATENT-CLASS-128-DIG.12 . c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.13 . c 52 N83-27577 *
US-PATENT-CLASS-128-DIG.16 . c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.20 . c 52 N76-19785 *
US-PATENT-CLASS-128-DIG.20 . c 37 N81-17433 *
US-PATENT-CLASS-128-DIG.25 . c 52 N81-25660 *
US-PATENT-CLASS-128-DIG.25 . c 52 N84-11744 *
US-PATENT-CLASS-128-DIG.26 . c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.4 .... c 05 N72-27103 *
US-PATENT-CLASS-128-DIG.4 .... c 05 N75-24716 *
US-PATENT-CLASS-128-DIG.4 .... c 35 N76-24525 *
US-PATENT-CLASS-128-DIG.4 .... c 52 N77-28717 *
US-PATENT-CLASS-128-DIG.6 .... c 51 N81-14605 *
US-PATENT-CLASS-128-DIG.9 .... c 52 N80-16725 *
US-PATENT-CLASS-128-DIG.9 .... c 51 N81-14605 *
US-PATENT-CLASS-128-1.2 ..... c 52 N82-22875 *
US-PATENT-CLASS-128-1A ..... c 05 N73-32012 *
US-PATENT-CLASS-128-1A ..... c 54 N84-16803 *
US-PATENT-CLASS-128-1R ..... c 52 N77-25772 *
US-PATENT-CLASS-128-1R ..... c 52 N77-28716 *
US-PATENT-CLASS-128-1R ..... c 52 N81-25660 *
US-PATENT-CLASS-128-1R ..... c 52 N84-11744 *
US-PATENT-CLASS-128-142.2 .... c 54 N76-24900 *
US-PATENT-CLASS-128-142.5 .... c 05 N71-11190 *
US-PATENT-CLASS-128-142.5 .... c 05 N71-11203 *
US-PATENT-CLASS-128-142.5 .... c 05 N71-17599 *
US-PATENT-CLASS-128-142.5 .... c 05 N72-20096 *
US-PATENT-CLASS-128-142.5 .... c 05 N73-25125 *
US-PATENT-CLASS-128-142.7 .... c 54 N78-32721 *
US-PATENT-CLASS-128-142R .... c 54 N80-10799 *
US-PATENT-CLASS-128-145.8 .... c 54 N75-27761 *
US-PATENT-CLASS-128-15R ..... c 54 N84-16803 *
US-PATENT-CLASS-128-191R .... c 25 N74-12813 *
US-PATENT-CLASS-128-191R .... c 54 N80-10799 *
US-PATENT-CLASS-128-1 ..... c 05 N70-41819 *
US-PATENT-CLASS-128-1 ..... c 05 N71-20268 *
US-PATENT-CLASS-128-2.05A ... c 52 N74-26626 *
US-PATENT-CLASS-128-2.05A ... c 54 N75-13531 *
US-PATENT-CLASS-128-2.05E .... c 52 N74-27566 *
US-PATENT-CLASS-128-2.05E .... c 52 N76-29896 *
US-PATENT-CLASS-128-2.05F .... c 14 N73-32326 *
US-PATENT-CLASS-128-2.05P .... c 54 N75-13531 *
US-PATENT-CLASS-128-2.05R ... c 05 N73-27941 *
US-PATENT-CLASS-128-2.05R ... c 52 N76-29895 *
US-PATENT-CLASS-128-2.05R ... c 52 N79-10724 *
US-PATENT-CLASS-128-2.05S .... c 52 N74-26626 *
US-PATENT-CLASS-128-2.05T .... c 52 N74-12778 *
US-PATENT-CLASS-128-2.05V .... c 35 N76-24525 *
US-PATENT-CLASS-128-2.05Z .... c 54 N75-27760 *
US-PATENT-CLASS-128-2.05Z .... c 52 N79-18580 *
US-PATENT-CLASS-128-2.05 ..... c 05 N70-41329 *
US-PATENT-CLASS-128-2.05 ..... c 04 N71-23185 *
US-PATENT-CLASS-128-2.05 ..... c 05 N71-27234 *
US-PATENT-CLASS-128-2.06B ... c 05 N75-24716 *
US-PATENT-CLASS-128-2.06E .... c 52 N76-29896 *
US-PATENT-CLASS-128-2.06F .... c 52 N74-12778 *
US-PATENT-CLASS-128-2.06R ... c 05 N73-27941 *
US-PATENT-CLASS-128-2.06R ... c 52 N76-14757 *
US-PATENT-CLASS-128-2.06 ..... c 05 N69-21925 * #
US-PATENT-CLASS-128-2.06 ..... c 05 N71-22896 *
US-PATENT-CLASS-128-2.06 ..... c 09 N71-24618 *
US-PATENT-CLASS-128-2.06 ..... c 05 N71-26293 *
US-PATENT-CLASS-128-2.07 ..... c 05 N73-32015 *
US-PATENT-CLASS-128-2.07 ..... c 52 N74-20728 *
US-PATENT-CLASS-128-2.08 ..... c 05 N69-21473 * #
US-PATENT-CLASS-128-2.08 ..... c 05 N73-32015 *
US-PATENT-CLASS-128-2.08 ..... c 52 N74-20728 *
US-PATENT-CLASS-128-2.1A ..... c 09 N72-17153 *
US-PATENT-CLASS-128-2.1A ..... c 09 N72-22202 *
US-PATENT-CLASS-128-2.1A ..... c 52 N74-26625 *
US-PATENT-CLASS-128-2.1A ..... c 52 N76-14757 *
US-PATENT-CLASS-128-2.1A ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2.1A ..... c 52 N79-18580 *
US-PATENT-CLASS-128-2.1E ..... c 05 N72-27103 *
US-PATENT-CLASS-128-2.1E ..... c 35 N76-24525 *
US-PATENT-CLASS-128-2.1E ..... c 52 N77-28717 *
US-PATENT-CLASS-128-2.1R ..... c 05 N73-26072 *
US-PATENT-CLASS-128-2.1Z ..... c 35 N76-24525 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-11193 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-12346 *
US-PATENT-CLASS-128-2.1 ..... c 05 N71-24729 *
US-PATENT-CLASS-128-2.1 ..... c 09 N71-26002 *
US-PATENT-CLASS-128-2.1 ..... c 05 N72-25120 *
US-PATENT-CLASS-128-2F ..... c 54 N76-14804 *
US-PATENT-CLASS-128-2H ..... c 52 N76-14757 *

US-PATENT-CLASS-128-2H ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2H ..... c 52 N77-10780 *
US-PATENT-CLASS-128-2H ..... c 52 N77-14736 *
US-PATENT-CLASS-128-2N ..... c 05 N72-25122 *
US-PATENT-CLASS-128-2N ..... c 05 N73-13114 *
US-PATENT-CLASS-128-2P ..... c 52 N76-29894 *
US-PATENT-CLASS-128-2R ..... c 09 N72-22202 *
US-PATENT-CLASS-128-2R ..... c 52 N79-12694 *
US-PATENT-CLASS-128-2S ..... c 52 N74-10975 *
US-PATENT-CLASS-128-2S ..... c 52 N74-27864 *
US-PATENT-CLASS-128-2S ..... c 33 N75-31329 *
US-PATENT-CLASS-128-2S ..... c 33 N76-19338 *
US-PATENT-CLASS-128-2S ..... c 52 N76-29895 *
US-PATENT-CLASS-128-2S ..... c 52 N76-29896 *
US-PATENT-CLASS-128-2V ..... c 52 N74-20726 *
US-PATENT-CLASS-128-2V ..... c 35 N75-12271 *
US-PATENT-CLASS-128-2V ..... c 54 N75-27760 *
US-PATENT-CLASS-128-2V ..... c 52 N79-14751 *
US-PATENT-CLASS-128-2V ..... c 52 N79-18580 *
US-PATENT-CLASS-128-202.11 .. c 54 N86-28618 *
US-PATENT-CLASS-128-203 ..... c 54 N76-24900 *
US-PATENT-CLASS-128-204.18 .. c 51 N81-14605 *
US-PATENT-CLASS-128-206F ..... c 14 N73-24473 *
US-PATENT-CLASS-128-207.14 .. c 51 N81-14605 *
US-PATENT-CLASS-128-207.28 .. c 51 N81-14605 *
US-PATENT-CLASS-128-212 ..... c 54 N80-10799 *
US-PATENT-CLASS-128-214D .... c 52 N79-14749 *
US-PATENT-CLASS-128-214E ..... c 52 N74-22771 *
US-PATENT-CLASS-128-214F ..... c 37 N77-28487 *
US-PATENT-CLASS-128-230 ..... c 52 N75-33640 *
US-PATENT-CLASS-128-236 ..... c 51 N81-14605 *
US-PATENT-CLASS-128-24-A ..... c 52 N84-34913 *
US-PATENT-CLASS-128-24A ..... c 05 N73-27062 *
US-PATENT-CLASS-128-24A ..... c 54 N75-27760 *
US-PATENT-CLASS-128-24 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-25R ..... c 37 N74-18127 *
US-PATENT-CLASS-128-25 ..... c 05 N71-24738 *
US-PATENT-CLASS-128-26 ..... c 52 N76-19785 *
US-PATENT-CLASS-128-272 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-272 ..... c 52 N79-14749 *
US-PATENT-CLASS-128-275 ..... c 15 N71-24835 *
US-PATENT-CLASS-128-275 ..... c 52 N81-29763 *
US-PATENT-CLASS-128-276 ..... c 52 N80-14684 *
US-PATENT-CLASS-128-276 ..... c 52 N80-18690 *
US-PATENT-CLASS-128-280 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-283 ..... c 05 N69-23192 * #
US-PATENT-CLASS-128-283 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-284 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-285 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-288 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-291 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-295 ..... c 05 N72-22093 *
US-PATENT-CLASS-128-295 ..... c 52 N81-24711 *
US-PATENT-CLASS-128-295 ..... c 52 N81-28740 *
US-PATENT-CLASS-128-296 ..... c 24 N82-29362 *
US-PATENT-CLASS-128-29 ..... c 05 N70-39922 *
US-PATENT-CLASS-128-2 ..... c 05 N73-27062 *
US-PATENT-CLASS-128-303B .... c 52 N83-25346 *
US-PATENT-CLASS-128-303R .... c 52 N77-28716 *
US-PATENT-CLASS-128-305 ..... c 05 N73-27062 *
US-PATENT-CLASS-128-305 ..... c 52 N75-33640 *
US-PATENT-CLASS-128-305 ..... c 52 N78-14773 *
US-PATENT-CLASS-128-325 ..... c 52 N84-28388 *
US-PATENT-CLASS-128-327 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-328 ..... c 52 N84-34913 *
US-PATENT-CLASS-128-329R .... c 52 N79-27836 *
US-PATENT-CLASS-128-346 ..... c 52 N81-25660 *
US-PATENT-CLASS-128-346 ..... c 52 N84-11744 *
US-PATENT-CLASS-128-346 ..... c 52 N84-28388 *
US-PATENT-CLASS-128-348 ..... c 52 N80-16725 *
US-PATENT-CLASS-128-379 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-38 ..... c 54 N84-16803 *
US-PATENT-CLASS-128-400 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-402 ..... c 05 N72-20096 *
US-PATENT-CLASS-128-402 ..... c 52 N77-14736 *
US-PATENT-CLASS-128-410 ..... c 52 N77-28717 *
US-PATENT-CLASS-128-417 ..... c 05 N72-25120 *
US-PATENT-CLASS-128-417 ..... c 05 N72-27103 *
US-PATENT-CLASS-128-418 ..... c 52 N76-29896 *
US-PATENT-CLASS-128-418 ..... c 52 N77-14738 *
US-PATENT-CLASS-128-419P .... c 52 N76-29896 *
US-PATENT-CLASS-128-421 ..... c 52 N82-29863 *
US-PATENT-CLASS-128-422 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-62A ..... c 52 N82-29862 *
US-PATENT-CLASS-128-639 ..... c 52 N79-27836 *
US-PATENT-CLASS-128-642 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-642 ..... c 52 N81-14612 *
US-PATENT-CLASS-128-642 ..... c 52 N81-20703 *
US-PATENT-CLASS-128-660.06 .. c 71 N91-27914 *
US-PATENT-CLASS-128-660 ..... c 52 N79-26771 *
US-PATENT-CLASS-128-660 ..... c 52 N83-27578 *
US-PATENT-CLASS-128-660 ..... c 52 N85-30618 *
US-PATENT-CLASS-128-661.03 .. c 52 N90-21519 *
US-PATENT-CLASS-128-663 ..... c 52 N83-27578 *
US-PATENT-CLASS-128-665 ..... c 52 N81-27783 *
US-PATENT-CLASS-128-666 ..... c 52 N80-23969 *
US-PATENT-CLASS-128-671 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-675 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-686 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-689 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-690 ..... c 52 N80-23969 *
US-PATENT-CLASS-128-691 ..... c 52 N82-11770 *
US-PATENT-CLASS-128-6 ..... c 52 N80-16725 *
US-PATENT-CLASS-128-706 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-716 ..... c 52 N91-14709 *
US-PATENT-CLASS-128-736 ..... c 52 N85-30618 *
US-PATENT-CLASS-128-748 ..... c 52 N80-18691 *
US-PATENT-CLASS-128-748 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-760 ..... c 52 N80-18690 *
US-PATENT-CLASS-128-760 ..... c 52 N81-29763 *
US-PATENT-CLASS-128-761 ..... c 52 N81-24711 *
US-PATENT-CLASS-128-774 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-774 ..... c 52 N81-20703 *
US-PATENT-CLASS-128-774 ..... c 52 N83-25346 *
US-PATENT-CLASS-128-778 ..... c 52 N82-22875 *
US-PATENT-CLASS-128-778 ..... c 35 N90-23706 *
US-PATENT-CLASS-128-782 ..... c 52 N80-27072 *
US-PATENT-CLASS-128-782 ..... c 39 N83-20280 *
US-PATENT-CLASS-128-782 ..... c 52 N83-25346 *
US-PATENT-CLASS-128-784 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-80-E ..... c 54 N86-22112 *
US-PATENT-CLASS-128-80F ..... c 52 N81-25661 *
US-PATENT-CLASS-128-804 ..... c 52 N82-33996 *
US-PATENT-CLASS-128-89R ..... c 52 N81-25662 *
US-PATENT-CLASS-128-903 ..... c 52 N80-18691 *
US-PATENT-CLASS-128-92C ..... c 27 N78-17215 *
US-PATENT-CLASS-128-92G ..... c 27 N78-17215 *
US-PATENT-CLASS-129-16.7 ..... c 08 N71-15908 *
US-PATENT-CLASS-13-20 ..... c 11 N72-23215 *
US-PATENT-CLASS-13-20 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-22 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-24 ..... c 12 N79-26075 *
US-PATENT-CLASS-13-26 ..... c 33 N71-15625 *
US-PATENT-CLASS-13-26 ..... c 14 N71-23267 *
US-PATENT-CLASS-13-31 ..... c 11 N72-23215 *
US-PATENT-CLASS-13-31 ..... c 31 N74-27900 *
US-PATENT-CLASS-13-35 ..... c 33 N71-24145 *
US-PATENT-CLASS-134-137 ..... c 37 N82-12441 *
US-PATENT-CLASS-134-166C .... c 37 N87-17035 *
US-PATENT-CLASS-134-17 ..... c 43 N81-26509 *
US-PATENT-CLASS-134-21 ..... c 37 N76-18456 *
US-PATENT-CLASS-134-37 ..... c 37 N76-18456 *
US-PATENT-CLASS-134-37 ..... c 37 N85-21652 *
US-PATENT-CLASS-134-93 ..... c 37 N87-17035 *
US-PATENT-CLASS-135-1 ..... c 32 N70-36536 *
US-PATENT-CLASS-135-903 ..... c 37 N87-17036 *
US-PATENT-CLASS-136-100R .... c 03 N72-20034 *
US-PATENT-CLASS-136-114 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-132 ..... c 03 N71-11053 *
US-PATENT-CLASS-136-132 ..... c 03 N71-22974 *
US-PATENT-CLASS-136-133 ..... c 15 N69-24320 * #
US-PATENT-CLASS-136-133 ..... c 03 N71-23006 *
US-PATENT-CLASS-136-133 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-135 ..... c 03 N72-15986 *
US-PATENT-CLASS-136-143 ..... c 44 N76-29699 *
US-PATENT-CLASS-136-146 ..... c 03 N69-21337 * #
US-PATENT-CLASS-136-146 ..... c 24 N76-14204 *
US-PATENT-CLASS-136-148 ..... c 24 N76-14204 *
US-PATENT-CLASS-136-148 ..... c 44 N82-24645 *
US-PATENT-CLASS-136-162 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-166 ..... c 03 N71-23336 *
US-PATENT-CLASS-136-166 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-170 ..... c 03 N71-11051 *
US-PATENT-CLASS-136-175 ..... c 03 N72-20034 *
US-PATENT-CLASS-136-179 ..... c 03 N70-41864 *
US-PATENT-CLASS-136-182 ..... c 03 N71-10728 *
US-PATENT-CLASS-136-182 ..... c 03 N71-20407 *
US-PATENT-CLASS-136-182 ..... c 03 N71-20491 *
US-PATENT-CLASS-136-182 ..... c 44 N74-27519 *
US-PATENT-CLASS-136-182 ..... c 44 N76-14601 *
US-PATENT-CLASS-136-200 ..... c 35 N91-31608 *
US-PATENT-CLASS-136-202 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-202 ..... c 03 N72-26031 *
US-PATENT-CLASS-136-202 ..... c 44 N76-16612 *
US-PATENT-CLASS-136-202 ..... c 35 N77-32454 *
US-PATENT-CLASS-136-202 ..... c 35 N79-14346 *
US-PATENT-CLASS-136-204 ..... c 31 N91-27385 *
US-PATENT-CLASS-136-206 ..... c 03 N72-11062 *
US-PATENT-CLASS-136-206 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-206 ..... c 44 N76-14595 *
US-PATENT-CLASS-136-206 ..... c 44 N76-31666 *
US-PATENT-CLASS-136-20 ..... c 44 N74-19693 *
US-PATENT-CLASS-136-210 ..... c 44 N76-16612 *
US-PATENT-CLASS-136-211 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-212 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-213 ..... c 14 N69-27459 * #
US-PATENT-CLASS-136-213 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-224 ..... c 14 N73-12447 *
US-PATENT-CLASS-136-225 ..... c 14 N73-24472 *
US-PATENT-CLASS-136-225 ..... c 35 N76-15434 *
US-PATENT-CLASS-136-225 ..... c 44 N85-21768 *
US-PATENT-CLASS-136-227 ..... c 09 N72-12136 *
US-PATENT-CLASS-136-228 ..... c 33 N71-15568 *
US-PATENT-CLASS-136-230 ..... c 14 N71-23039 *
US-PATENT-CLASS-136-230 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-232 ..... c 35 N77-14409 *
US-PATENT-CLASS-136-233 ..... c 14 N72-27410 *
US-PATENT-CLASS-136-233 ..... c 14 N73-13417 *
US-PATENT-CLASS-136-233 ..... c 34 N74-27861 *
US-PATENT-CLASS-136-233 ..... c 35 N77-14409 *
US-PATENT-CLASS-136-236R .... c 35 N77-32454 *
US-PATENT-CLASS-136-236 ..... c 35 N79-14346 *
US-PATENT-CLASS-136-240 ..... c 35 N77-32454 *
US-PATENT-CLASS-136-244 ..... c 44 N91-27614 *
US-PATENT-CLASS-136-246 ..... c 44 N85-21768 *
US-PATENT-CLASS-136-249 ..... c 44 N81-12542 *
US-PATENT-CLASS-136-249 ..... c 44 N82-29709 *
US-PATENT-CLASS-136-249 ..... c 44 N82-31764 *
US-PATENT-CLASS-136-249 ..... c 44 N83-32177 *
US-PATENT-CLASS-136-249 ..... c 44 N87-17399 *
US-PATENT-CLASS-136-249 ..... c 33 N87-23879 *
US-PATENT-CLASS-136-249 ..... c 44 N91-27614 *
US-PATENT-CLASS-136-24 ..... c 09 N73-32108 *
US-PATENT-CLASS-136-253 ..... c 44 N85-34441 *
US-PATENT-CLASS-136-255 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-255 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-255 ..... c 33 N85-21492 *
US-PATENT-CLASS-136-255 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-255 ..... c 76 N86-20150 *
US-PATENT-CLASS-136-255 ..... c 33 N87-23879 *
US-PATENT-CLASS-136-256 ..... c 44 N83-13579 *
US-PATENT-CLASS-136-256 ..... c 44 N83-14692 *
US-PATENT-CLASS-136-256 ..... c 44 N85-20530 *
US-PATENT-CLASS-136-256 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-256 ..... c 44 N91-27614 *
US-PATENT-CLASS-136-258 ..... c 44 N81-19558 *
US-PATENT-CLASS-136-258 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-259 ..... c 44 N83-13579 *
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US-PATENT-CLASS-136-261 ..... c 44 N85-30475 *
US-PATENT-CLASS-136-261 ..... c 44 N86-32875 *
US-PATENT-CLASS-136-262 ..... c 44 N81-29525 *
US-PATENT-CLASS-136-262 ..... c 76 N86-20150 *
US-PATENT-CLASS-136-28 ..... c 03 N71-10608 *
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US-PATENT-CLASS-136-291 ..... c 44 N81-12542 *
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US-PATENT-CLASS-136-30 ..... c 44 N76-29699 *
US-PATENT-CLASS-136-36 ..... c 44 N74-19692 *
US-PATENT-CLASS-136-6LF ..... c 44 N76-18643 *
US-PATENT-CLASS-136-6 ..... c 03 N71-26084 *
US-PATENT-CLASS-136-6 ..... c 03 N72-15986 *
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US-PATENT-CLASS-136-6 ..... c 44 N82-24642 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24643 *
US-PATENT-CLASS-136-6 ..... c 44 N82-24644 *
US-PATENT-CLASS-136-79 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-81 ..... c 03 N72-20032 *
US-PATENT-CLASS-136-83R ..... c 03 N72-20034 *
US-PATENT-CLASS-136-83R ..... c 44 N76-18641 *
US-PATENT-CLASS-136-83 ..... c 03 N71-28579 *
US-PATENT-CLASS-136-86A ..... c 44 N76-27664 *
US-PATENT-CLASS-136-86S ..... c 44 N76-18641 *
US-PATENT-CLASS-136-86 ..... c 03 N71-11052 *
US-PATENT-CLASS-136-86 ..... c 03 N71-20904 *
US-PATENT-CLASS-136-86 ..... c 15 N71-23022 *
US-PATENT-CLASS-136-86 ..... c 03 N71-29044 *
US-PATENT-CLASS-136-89AC .... c 44 N77-31601 *
US-PATENT-CLASS-136-89CA .... c 44 N79-25482 *
US-PATENT-CLASS-136-89CC .... c 44 N78-25527 *
US-PATENT-CLASS-136-89CC .... c 44 N78-25529 *
US-PATENT-CLASS-136-89CC .... c 44 N79-11467 *
US-PATENT-CLASS-136-89CC .... c 44 N79-17314 *
US-PATENT-CLASS-136-89CC .... c 44 N79-25482 *
US-PATENT-CLASS-136-89CC .... c 44 N79-31752 *
US-PATENT-CLASS-136-89H ..... c 44 N78-25528 *
US-PATENT-CLASS-136-89H ..... c 44 N78-25529 *
US-PATENT-CLASS-136-89PC .... c 44 N79-25482 *
US-PATENT-CLASS-136-89PC .... c 44 N79-31753 *
US-PATENT-CLASS-136-89P ..... c 44 N77-31601 *
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US-PATENT-CLASS-136-89P ..... c 44 N78-27515 *
US-PATENT-CLASS-136-89P ..... c 44 N79-17314 *
US-PATENT-CLASS-136-89P ..... c 44 N80-14474 *
US-PATENT-CLASS-136-89SG .... c 44 N78-24609 *
US-PATENT-CLASS-136-89SG .... c 44 N80-24741 *
US-PATENT-CLASS-136-89SJ .... c 44 N78-13526 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-11467 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-14528 *
US-PATENT-CLASS-136-89SJ .... c 44 N79-25482 *
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US-PATENT-CLASS-136-89 ..... c 03 N71-11056 *
US-PATENT-CLASS-136-89 ..... c 03 N71-18698 *

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US-PATENT-CLASS-136-89 ..... c 03 N71-20492 *
US-PATENT-CLASS-136-89 ..... c 03 N71-20895 *
US-PATENT-CLASS-136-89 ..... c 26 N71-23043 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23187 *
US-PATENT-CLASS-136-89 ..... c 03 N71-23449 *
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US-PATENT-CLASS-136-89 ..... c 03 N72-20031 *
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US-PATENT-CLASS-136-89 ..... c 31 N72-22874 *
US-PATENT-CLASS-136-89 ..... c 03 N72-24037 *
US-PATENT-CLASS-136-89 ..... c 09 N72-25259 *
US-PATENT-CLASS-136-89 ..... c 03 N72-27053 *
US-PATENT-CLASS-136-89 ..... c 09 N73-32109 *
US-PATENT-CLASS-136-89 ..... c 44 N74-14784 *
US-PATENT-CLASS-136-89 ..... c 44 N76-14600 *
US-PATENT-CLASS-136-89 ..... c 44 N76-28635 *
US-PATENT-CLASS-136-89 ..... c 44 N76-31666 *
US-PATENT-CLASS-136-89 ..... c 44 N77-10635 *
US-PATENT-CLASS-136-89 ..... c 44 N77-14580 *
US-PATENT-CLASS-136-89 ..... c 44 N77-19571 *
US-PATENT-CLASS-136-89 ..... c 44 N79-11468 *
US-PATENT-CLASS-136-90 ..... c 44 N76-14601 *
US-PATENT-CLASS-137-DIG.9 .... c 54 N76-24900 *
US-PATENT-CLASS-137-101 ..... c 07 N77-23106 *
US-PATENT-CLASS-137-104 ..... c 37 N78-10467 *
US-PATENT-CLASS-137-110 ..... c 54 N76-24900 *
US-PATENT-CLASS-137-116.3 .... c 37 N85-34403 *
US-PATENT-CLASS-137-13 ..... c 15 N71-15967 *
US-PATENT-CLASS-137-13 ..... c 15 N72-33477 *
US-PATENT-CLASS-137-14 ..... c 37 N79-33468 *
US-PATENT-CLASS-137-15.1 ..... c 02 N74-20646 *
US-PATENT-CLASS-137-15.1 ..... c 07 N74-31270 *
US-PATENT-CLASS-137-15.1 ..... c 07 N75-24736 *
US-PATENT-CLASS-137-15.1 ..... c 07 N77-18154 *
US-PATENT-CLASS-137-15.1 ..... c 07 N79-14096 *
US-PATENT-CLASS-137-15.1 ..... c 05 N79-24976 *
US-PATENT-CLASS-137-15.1 ..... c 07 N81-14999 *
US-PATENT-CLASS-137-15.2 ..... c 02 N74-20646 *
US-PATENT-CLASS-137-15.2 ..... c 35 N76-14431 *
US-PATENT-CLASS-137-154 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-154 ..... c 31 N90-20254 *
US-PATENT-CLASS-137-177 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-197 ..... c 15 N70-41646 *
US-PATENT-CLASS-137-197 ..... c 35 N78-12390 *
US-PATENT-CLASS-137-1 ..... c 12 N70-38997 *
US-PATENT-CLASS-137-1 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-207 ..... c 34 N77-30399 *
US-PATENT-CLASS-137-209 ..... c 34 N77-30399 *
US-PATENT-CLASS-137-209 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-340 ..... c 15 N70-34817 *
US-PATENT-CLASS-137-340 ..... c 15 N70-35087 *
US-PATENT-CLASS-137-341 ..... c 12 N71-17661 *
US-PATENT-CLASS-137-375 ..... c 37 N80-23654 *
US-PATENT-CLASS-137-397 ..... c 15 N73-26472 *
US-PATENT-CLASS-137-469 ..... c 05 N72-20097 *
US-PATENT-CLASS-137-484.2 .... c 34 N78-25351 *
US-PATENT-CLASS-137-487.5 .... c 14 N73-13418 *
US-PATENT-CLASS-137-491 ..... c 15 N69-21924 * #
US-PATENT-CLASS-137-493 ..... c 52 N81-25660 *
US-PATENT-CLASS-137-495 ..... c 15 N70-38603 *
US-PATENT-CLASS-137-496 ..... c 15 N71-22706 *
US-PATENT-CLASS-137-501 ..... c 34 N78-25351 *
US-PATENT-CLASS-137-505.12 .. c 14 N71-18625 *
US-PATENT-CLASS-137-505.16 .. c 34 N78-25351 *
US-PATENT-CLASS-137-505.25 .. c 37 N78-25426 *
US-PATENT-CLASS-137-505.38 .. c 37 N75-15050 *
US-PATENT-CLASS-137-505.42 .. c 37 N75-15050 *
US-PATENT-CLASS-137-515.3 .... c 37 N76-14463 *
US-PATENT-CLASS-137-516.27 .. c 15 N73-30459 *
US-PATENT-CLASS-137-535 ..... c 15 N73-30459 *
US-PATENT-CLASS-137-535 ..... c 05 N73-32014 *
US-PATENT-CLASS-137-538 ..... c 05 N73-25125 *
US-PATENT-CLASS-137-539 ..... c 15 N70-41811 *
US-PATENT-CLASS-137-549 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-550 ..... c 37 N76-14463 *
US-PATENT-CLASS-137-554 ..... c 09 N71-23191 *
US-PATENT-CLASS-137-556 ..... c 34 N91-14563 *
US-PATENT-CLASS-137-559 ..... c 11 N73-12265 *
US-PATENT-CLASS-137-574 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-576 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-582 ..... c 32 N71-16103 *
US-PATENT-CLASS-137-582 ..... c 32 N71-16106 *
US-PATENT-CLASS-137-582 ..... c 15 N71-19569 *
US-PATENT-CLASS-137-582 ..... c 15 N73-26472 *
US-PATENT-CLASS-137-590 ..... c 20 N80-10278 *
US-PATENT-CLASS-137-594 ..... c 12 N71-18615 *
US-PATENT-CLASS-137-604 ..... c 15 N73-27406 *
US-PATENT-CLASS-137-606 ..... c 37 N87-21332 *
US-PATENT-CLASS-137-608 ..... c 15 N73-13462 *
US-PATENT-CLASS-137-614.06 .. c 37 N79-11402 *
US-PATENT-CLASS-137-614.11 .. c 37 N87-25573 *
US-PATENT-CLASS-137-614.18 .. c 37 N87-25573 *
US-PATENT-CLASS-137-614 ..... c 15 N70-36492 *
US-PATENT-CLASS-137-615 ..... c 12 N71-16031 *
US-PATENT-CLASS-137-624.11 .. c 35 N78-19466 *
US-PATENT-CLASS-137-624.14 .. c 03 N69-21469 * #
US-PATENT-CLASS-137-625.38 .. c 37 N78-25426 *
US-PATENT-CLASS-137-625.3 .... c 37 N78-25426 *
US-PATENT-CLASS-137-625.4 .... c 37 N80-23654 *
US-PATENT-CLASS-137-625.5 .... c 15 N71-23051 *
US-PATENT-CLASS-137-625.69 .. c 15 N70-36908 *
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US-PATENT-CLASS-137-637.05 .. c 37 N79-11402 *
US-PATENT-CLASS-137-81.5 ..... c 12 N69-21466 * #
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US-PATENT-CLASS-137-81.5 ..... c 12 N71-17578 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-17579 *
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US-PATENT-CLASS-137-81.5 ..... c 12 N71-27332 *
US-PATENT-CLASS-137-81.5 ..... c 12 N71-28741 *
US-PATENT-CLASS-137-81.5 ..... c 28 N72-22772 *
US-PATENT-CLASS-137-81.5 ..... c 15 N72-33477 *
US-PATENT-CLASS-137-81.5 ..... c 15 N73-13462 *
US-PATENT-CLASS-137-81.5 ..... c 28 N73-13773 *
US-PATENT-CLASS-137-819 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-81 ..... c 05 N72-20097 *
US-PATENT-CLASS-137-81 ..... c 14 N73-13418 *
US-PATENT-CLASS-137-833 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-838 ..... c 71 N84-28568 *
US-PATENT-CLASS-137-840 ..... c 33 N74-11050 *
US-PATENT-CLASS-137-886 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-887 ..... c 37 N81-17433 *
US-PATENT-CLASS-137-99 ..... c 37 N85-34403 *
US-PATENT-CLASS-138.8R ..... c 27 N81-15104 *
US-PATENT-CLASS-138-103 ..... c 52 N80-16725 *
US-PATENT-CLASS-138-113 ..... c 34 N75-12222 *
US-PATENT-CLASS-138-114 ..... c 34 N75-12222 *
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US-PATENT-CLASS-138-120 ..... c 54 N86-29507 * #
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US-PATENT-CLASS-138-148 ..... c 34 N75-12222 *
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US-PATENT-CLASS-138-153 ..... c 24 N90-25196 *
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US-PATENT-CLASS-138-30 ..... c 31 N91-25305 *
US-PATENT-CLASS-138-33 ..... c 52 N80-16725 *
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US-PATENT-CLASS-138-38 ..... c 34 N88-29133 *
US-PATENT-CLASS-138-42 ..... c 15 N71-15608 *
US-PATENT-CLASS-138-42 ..... c 44 N84-14583 *
US-PATENT-CLASS-138-43 ..... c 15 N71-19213 *
US-PATENT-CLASS-138-45 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-45 ..... c 15 N73-13462 *
US-PATENT-CLASS-138-46 ..... c 12 N71-18615 *
US-PATENT-CLASS-138-4 ..... c 15 N71-18580 *
US-PATENT-CLASS-138-96R ..... c 37 N79-22474 *
US-PATENT-CLASS-138-97 ..... c 37 N86-32736 * #
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US-PATENT-CLASS-140-105 ..... c 15 N72-12408 *
US-PATENT-CLASS-140-123 ..... c 15 N71-15918 *
US-PATENT-CLASS-140-124 ..... c 15 N71-10809 *
US-PATENT-CLASS-141-197 ..... c 35 N78-10428 *
US-PATENT-CLASS-141-198 ..... c 25 N86-27431 *
US-PATENT-CLASS-141-23 ..... c 15 N72-21465 *
US-PATENT-CLASS-141-258 ..... c 14 N71-27005 *
US-PATENT-CLASS-141-45 ..... c 29 N90-20236 *
US-PATENT-CLASS-141-4 ..... c 35 N78-10428 *
US-PATENT-CLASS-141-5 ..... c 33 N71-20834 *
US-PATENT-CLASS-141-91 ..... c 12 N71-21089 *
US-PATENT-CLASS-141-93 ..... c 31 N90-20254 *
US-PATENT-CLASS-148-DIG.26 . c 76 N85-30922 *
US-PATENT-CLASS-148-1.5 ..... c 26 N71-10607 *
US-PATENT-CLASS-148-1.5 ..... c 26 N71-23654 *
US-PATENT-CLASS-148-1.5 ..... c 76 N74-20329 *
US-PATENT-CLASS-148-1.5 ..... c 44 N80-29835 *
US-PATENT-CLASS-148-1.5 ..... c 33 N81-26360 *
US-PATENT-CLASS-148-1.5 ..... c 44 N82-26777 *
US-PATENT-CLASS-148-1.5 ..... c 44 N82-29709 *
US-PATENT-CLASS-148-1.5 ..... c 44 N86-32875 *
US-PATENT-CLASS-148-11.5R ... c 15 N73-13465 *
US-PATENT-CLASS-148-12.4 ..... c 26 N79-22271 *
US-PATENT-CLASS-148-12.7A ... c 26 N78-24333 *
US-PATENT-CLASS-148-12.7N ... c 26 N77-20201 *
US-PATENT-CLASS-148-12F ..... c 26 N79-22271 *
US-PATENT-CLASS-148-121 ..... c 76 N79-16678 *
US-PATENT-CLASS-148-125 ..... c 26 N78-24333 *
US-PATENT-CLASS-148-126 ..... c 17 N71-24142 *
US-PATENT-CLASS-148-126 ..... c 18 N71-26153 *
US-PATENT-CLASS-148-126 ..... c 18 N71-28729 *
US-PATENT-CLASS-148-126 ..... c 26 N74-10521 *
US-PATENT-CLASS-148-127 ..... c 26 N75-29236 *
US-PATENT-CLASS-148-13.1 ..... c 76 N90-19884 *
US-PATENT-CLASS-148-131 ..... c 26 N80-28492 *
US-PATENT-CLASS-148-13 ..... c 14 N71-25892 *
US-PATENT-CLASS-148-13 ..... c 76 N90-19884 *
US-PATENT-CLASS-148-149 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-159 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-16.6 ..... c 26 N88-14179 *
US-PATENT-CLASS-148-162 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-162 ..... c 26 N87-28647 *
US-PATENT-CLASS-148-173 ..... c 76 N83-20789 *
US-PATENT-CLASS-148-174 ..... c 26 N71-29156 *
US-PATENT-CLASS-148-174 ..... c 44 N76-28635 *
US-PATENT-CLASS-148-174 ..... c 44 N78-24609 *
US-PATENT-CLASS-148-174 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-174 ..... c 76 N87-15882 *
US-PATENT-CLASS-148-175 ..... c 25 N75-26043 *
US-PATENT-CLASS-148-175 ..... c 76 N76-25049 *
US-PATENT-CLASS-148-175 ..... c 44 N76-28635 *
US-PATENT-CLASS-148-175 ..... c 44 N82-28780 *
US-PATENT-CLASS-148-175 ..... c 76 N83-20789 *
US-PATENT-CLASS-148-175 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-175 ..... c 76 N87-15882 *
US-PATENT-CLASS-148-187 ..... c 26 N72-17820 *
US-PATENT-CLASS-148-187 ..... c 14 N72-28438 *
US-PATENT-CLASS-148-187 ..... c 33 N81-26360 *
US-PATENT-CLASS-148-187 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-188 ..... c 24 N71-10560 *
US-PATENT-CLASS-148-188 ..... c 09 N71-12513 *
US-PATENT-CLASS-148-188 ..... c 44 N79-11468 *
US-PATENT-CLASS-148-188 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-189 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-190 ..... c 35 N87-14671 *
US-PATENT-CLASS-148-20.3 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-2 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-2 ..... c 26 N79-22271 *
US-PATENT-CLASS-148-32 ..... c 26 N78-18183 *
US-PATENT-CLASS-148-32.5 ..... c 17 N72-22535 *
US-PATENT-CLASS-148-32.5 ..... c 26 N77-20201 *
US-PATENT-CLASS-148-32.5 ..... c 26 N77-32280 *
US-PATENT-CLASS-148-32.5 ..... c 26 N78-18183 *
US-PATENT-CLASS-148-32 ..... c 26 N77-32279 *
US-PATENT-CLASS-148-32 ..... c 26 N80-23419 *
US-PATENT-CLASS-148-33.2 ..... c 76 N85-30922 *
US-PATENT-CLASS-148-410 ..... c 26 N87-28647 *
US-PATENT-CLASS-148-416 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-417 ..... c 26 N89-28621 *
US-PATENT-CLASS-148-428 ..... c 26 N82-31505 *
US-PATENT-CLASS-148-429 ..... c 26 N87-14482 *
US-PATENT-CLASS-148-4 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-6.11 ..... c 15 N71-24875 *
US-PATENT-CLASS-148-6.16 ..... c 18 N71-23047 *
US-PATENT-CLASS-148-6.20 ..... c 17 N71-23828 *
US-PATENT-CLASS-148-6.3 ..... c 17 N71-33408 *
US-PATENT-CLASS-148-6.3 ..... c 44 N79-18444 *
US-PATENT-CLASS-148-6.3 ..... c 26 N87-25455 *
US-PATENT-CLASS-148-6 ..... c 18 N71-29040 *
US-PATENT-CLASS-148-6 ..... c 76 N79-16678 *
US-PATENT-CLASS-148-902 ..... c 09 N90-23415 *
US-PATENT-CLASS-148-903 ..... c 09 N90-23415 *
US-PATENT-CLASS-149-105 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-108.4 .... c 28 N80-23471 *
US-PATENT-CLASS-149-108.4 .... c 28 N81-15119 *
US-PATENT-CLASS-149-109 ..... c 27 N70-41897 *
US-PATENT-CLASS-149-111 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-15 ..... c 44 N80-20808 *
US-PATENT-CLASS-149-17 ..... c 28 N74-33209 *
US-PATENT-CLASS-149-19.2 ..... c 28 N80-28536 *
US-PATENT-CLASS-149-19.4 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-19.4 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-19.4 ..... c 28 N79-28342 *
US-PATENT-CLASS-149-19.8 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-19.92 .... c 28 N79-14228 *
US-PATENT-CLASS-149-19.9 ..... c 28 N79-14228 *
US-PATENT-CLASS-149-19.9 ..... c 28 N79-28342 *
US-PATENT-CLASS-149-19.9 ..... c 28 N80-28536 *
US-PATENT-CLASS-149-19 ..... c 27 N71-14090 *
US-PATENT-CLASS-149-19 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-19 ..... c 27 N73-16764 *
US-PATENT-CLASS-149-1 ..... c 23 N71-16212 *
US-PATENT-CLASS-149-1 ..... c 06 N73-30097 *
US-PATENT-CLASS-149-1 ..... c 28 N80-20402 *
US-PATENT-CLASS-149-1 ..... c 28 N81-14103 *
US-PATENT-CLASS-149-20 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-20 ..... c 28 N79-14228 *
US-PATENT-CLASS-149-20 ..... c 28 N79-28342 *
US-PATENT-CLASS-149-20 ..... c 28 N80-28536 *
US-PATENT-CLASS-149-2 ..... c 12 N70-40124 *
US-PATENT-CLASS-149-36 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-36 ..... c 27 N73-16764 *
US-PATENT-CLASS-149-36 ..... c 06 N73-30097 *
US-PATENT-CLASS-149-36 ..... c 24 N76-14203 *
US-PATENT-CLASS-149-37 ..... c 44 N80-20808 *
US-PATENT-CLASS-149-42 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-43 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-44 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-60 ..... c 28 N74-33209 *
US-PATENT-CLASS-149-76 ..... c 28 N74-33209 *
US-PATENT-CLASS-149-76 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-83 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-85 ..... c 20 N78-32179 *
US-PATENT-CLASS-149-88 ..... c 28 N78-31255 *

US-PATENT-CLASS-149-92 ..... c 27 N72-25699 *
US-PATENT-CLASS-149-92 ..... c 28 N78-31255 *
US-PATENT-CLASS-149-93 ..... c 28 N78-31255 *
US-PATENT-CLASS-15-143 ..... c 15 N72-11390 *
US-PATENT-CLASS-15-210 ..... c 15 N72-11390 *
US-PATENT-CLASS-15-230.16 .... c 37 N79-10422 *
US-PATENT-CLASS-15-230.17 .... c 37 N79-10422 *
US-PATENT-CLASS-15-406 ..... c 37 N85-21652 *
US-PATENT-CLASS-15-415 ..... c 14 N73-30395 *
US-PATENT-CLASS-150-11 ..... c 37 N81-14317 *
US-PATENT-CLASS-150-1 ..... c 52 N79-14749 *
US-PATENT-CLASS-151-41.76 .... c 37 N80-23653 *
US-PATENT-CLASS-152-11 ..... c 31 N71-18611 *
US-PATENT-CLASS-152-225 ..... c 15 N71-27091 *
US-PATENT-CLASS-152-250 ..... c 15 N71-27091 *
US-PATENT-CLASS-152-330RF .. c 37 N81-24443 *
US-PATENT-CLASS-152-353G ... c 37 N81-24443 *
US-PATENT-CLASS-152-353R .... c 37 N81-24443 *
US-PATENT-CLASS-152-379.4 .... c 37 N81-24443 *
US-PATENT-CLASS-156.307.7 .... c 27 N82-11206 *
US-PATENT-CLASS-156-DIG.113 . c 76 N90-24169 *
US-PATENT-CLASS-156-DIG.6-8 . c 76 N79-23798 *
US-PATENT-CLASS-156-DIG.62 . c 76 N77-32919 *
US-PATENT-CLASS-156-DIG.62 . c 35 N83-24828 *
US-PATENT-CLASS-156-DIG.62 . c 33 N85-29142 *
US-PATENT-CLASS-156-DIG.62 . c 76 N90-23242 *
US-PATENT-CLASS-156-DIG.62 . c 76 N90-24169 *
US-PATENT-CLASS-156-DIG.64 . c 76 N79-11920 *
US-PATENT-CLASS-156-DIG.64 . c 44 N80-24741 *
US-PATENT-CLASS-156-DIG.64 . c 76 N80-32245 *
US-PATENT-CLASS-156-DIG.64 . c 76 N84-35113 *
US-PATENT-CLASS-156-DIG.65 . c 76 N79-11920 *
US-PATENT-CLASS-156-DIG.65 . c 76 N85-30922 *
US-PATENT-CLASS-156-DIG.6 .... c 76 N83-35888 *
US-PATENT-CLASS-156-DIG.70 . c 76 N88-24544 *
US-PATENT-CLASS-156-DIG.70 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.72 . c 76 N88-24544 *
US-PATENT-CLASS-156-DIG.72 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.72 . c 76 N90-23242 *
US-PATENT-CLASS-156-DIG.73 . c 76 N83-35888 *
US-PATENT-CLASS-156-DIG.73 . c 27 N83-36220 *
US-PATENT-CLASS-156-DIG.82 . c 76 N88-24544 *
US-PATENT-CLASS-156-DIG.82 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.84 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.88 . c 76 N79-11920 *
US-PATENT-CLASS-156-DIG.88 . c 76 N80-32245 *
US-PATENT-CLASS-156-DIG.88 . c 76 N84-35113 *
US-PATENT-CLASS-156-DIG.88 . c 76 N85-30922 *
US-PATENT-CLASS-156-DIG.88 . c 76 N86-28760 *
US-PATENT-CLASS-156-DIG.89 . c 27 N83-36220 *
US-PATENT-CLASS-156-DIG.89 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.92 . c 76 N88-24545 *
US-PATENT-CLASS-156-DIG.96 . c 76 N80-32244 *
US-PATENT-CLASS-156-DIG.96 . c 33 N81-19389 *
US-PATENT-CLASS-156-DIG.98 . c 76 N84-35113 *
US-PATENT-CLASS-156-104 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-153 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-154 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-154 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-157 ..... c 33 N82-26571 *
US-PATENT-CLASS-156-160 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-161 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-163 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-163 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-165 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-166 ..... c 74 N85-29749 *
US-PATENT-CLASS-156-16 ..... c 74 N75-12732 *
US-PATENT-CLASS-156-172 ..... c 15 N71-17651 *
US-PATENT-CLASS-156-172 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-17 ..... c 76 N79-21910 *
US-PATENT-CLASS-156-187 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-18 ..... c 26 N73-26752 *
US-PATENT-CLASS-156-18 ..... c 74 N75-12732 *
US-PATENT-CLASS-156-191 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-212 ..... c 03 N71-26726 *
US-PATENT-CLASS-156-212 ..... c 24 N80-26388 *
US-PATENT-CLASS-156-212 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-213 ..... c 24 N80-26388 *
US-PATENT-CLASS-156-215 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-218 ..... c 54 N74-32546 *
US-PATENT-CLASS-156-229 ..... c 24 N77-28225 *
US-PATENT-CLASS-156-229 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-230 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-233 ..... c 35 N88-30108 *
US-PATENT-CLASS-156-235 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-242 ..... c 15 N69-24322 * #
US-PATENT-CLASS-156-242 ..... c 37 N76-24575 *
US-PATENT-CLASS-156-242 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-245 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-245 ..... c 24 N78-17149 *
US-PATENT-CLASS-156-245 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-247 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-247 ..... c 35 N88-30108 *
US-PATENT-CLASS-156-249 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-250 ..... c 03 N72-25019 *
US-PATENT-CLASS-156-252 ..... c 24 N81-33235 *

US-PATENT-CLASS-156-264 ..... c 05 N72-25121 *
US-PATENT-CLASS-156-264 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-264 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-264 ..... c 31 N83-34073 *
US-PATENT-CLASS-156-267 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-272.4 .... c 31 N85-29083 *
US-PATENT-CLASS-156-272.4 .... c 35 N88-30108 *
US-PATENT-CLASS-156-272 ..... c 27 N80-32516 *
US-PATENT-CLASS-156-272 ..... c 33 N82-26571 *
US-PATENT-CLASS-156-273.7 .... c 27 N85-20125 *
US-PATENT-CLASS-156-273.9 .... c 31 N85-29083 *
US-PATENT-CLASS-156-274.8 .... c 35 N88-30108 *
US-PATENT-CLASS-156-275.5 .... c 35 N88-30108 *
US-PATENT-CLASS-156-278 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-285 ..... c 15 N71-23052 *
US-PATENT-CLASS-156-285 ..... c 18 N73-30532 *
US-PATENT-CLASS-156-285 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-285 ..... c 24 N74-27035 *
US-PATENT-CLASS-156-285 ..... c 24 N78-17149 *
US-PATENT-CLASS-156-285 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-285 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-285 ..... c 24 N80-26388 *
US-PATENT-CLASS-156-285 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-285 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-285 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-286 ..... c 37 N76-21554 *
US-PATENT-CLASS-156-286 ..... c 37 N76-24575 *
US-PATENT-CLASS-156-286 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-286 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-286 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-289 ..... c 24 N78-17149 *
US-PATENT-CLASS-156-289 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-289 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-289 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-289 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-290 ..... c 24 N81-33235 *
US-PATENT-CLASS-156-292 ..... c 27 N80-32516 *
US-PATENT-CLASS-156-292 ..... c 24 N81-17170 *
US-PATENT-CLASS-156-294 ..... c 37 N81-14317 *
US-PATENT-CLASS-156-294 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-294 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-295 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-297 ..... c 27 N89-12741 *
US-PATENT-CLASS-156-298 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-299 ..... c 27 N89-12741 *
US-PATENT-CLASS-156-300 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-303 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-304.3 .... c 27 N84-22748 *
US-PATENT-CLASS-156-304.6 .... c 27 N84-22748 *
US-PATENT-CLASS-156-306 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-307.1 .... c 37 N87-23981 *
US-PATENT-CLASS-156-307.3 .... c 27 N82-11206 *
US-PATENT-CLASS-156-307.3 .... c 37 N87-23981 *
US-PATENT-CLASS-156-307.5 .... c 27 N82-11206 *
US-PATENT-CLASS-156-307.7 .... c 37 N87-23981 *
US-PATENT-CLASS-156-307.7 .... c 35 N88-30108 *
US-PATENT-CLASS-156-307 ..... c 27 N86-20561 *
US-PATENT-CLASS-156-308 ..... c 05 N72-25121 *
US-PATENT-CLASS-156-309.9 .... c 27 N86-20561 *
US-PATENT-CLASS-156-309 ..... c 31 N74-18089 *
US-PATENT-CLASS-156-309 ..... c 27 N78-17205 *
US-PATENT-CLASS-156-311 ..... c 24 N78-17150 *
US-PATENT-CLASS-156-312 ..... c 44 N80-18550 *
US-PATENT-CLASS-156-315 ..... c 27 N82-24340 *
US-PATENT-CLASS-156-320 ..... c 15 N72-11392 *
US-PATENT-CLASS-156-323 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-329 ..... c 27 N82-29456 *
US-PATENT-CLASS-156-330 ..... c 24 N81-14000 *
US-PATENT-CLASS-156-331.5 .... c 27 N82-11206 *
US-PATENT-CLASS-156-331.5 .... c 27 N86-20561 *
US-PATENT-CLASS-156-331 ..... c 37 N74-18126 *
US-PATENT-CLASS-156-331 ..... c 27 N78-17205 *
US-PATENT-CLASS-156-331 ..... c 24 N79-16915 *
US-PATENT-CLASS-156-331 ..... c 27 N81-14077 *
US-PATENT-CLASS-156-338 ..... c 27 N82-24340 *
US-PATENT-CLASS-156-344 ..... c 28 N81-14103 *
US-PATENT-CLASS-156-344 ..... c 31 N83-34073 *
US-PATENT-CLASS-156-344 ..... c 31 N90-19427 *
US-PATENT-CLASS-156-344 ..... c 24 N90-25197 *
US-PATENT-CLASS-156-345 ..... c 15 N70-42033 *
US-PATENT-CLASS-156-345 ..... c 31 N87-21160 *
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US-PATENT-CLASS-156-380.2 .... c 31 N85-29083 *
US-PATENT-CLASS-156-382 ..... c 37 N76-21554 *
US-PATENT-CLASS-156-382 ..... c 52 N84-28389 *
US-PATENT-CLASS-156-382 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-391 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-3 ..... c 17 N71-16044 *
US-PATENT-CLASS-156-3 ..... c 15 N71-21404 *
US-PATENT-CLASS-156-3 ..... c 15 N71-24047 *
US-PATENT-CLASS-156-3 ..... c 06 N72-21094 *
US-PATENT-CLASS-156-423 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-494 ..... c 74 N87-28416 *
US-PATENT-CLASS-156-499 ..... c 27 N84-22748 *
US-PATENT-CLASS-156-510 ..... c 15 N71-17687 *

US-PATENT-CLASS-156-510 ..... c 03 N72-25019 *
US-PATENT-CLASS-156-52 ..... c 31 N79-21226 *
US-PATENT-CLASS-156-540 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-545 ..... c 15 N71-24164 *
US-PATENT-CLASS-156-556 ..... c 37 N76-21554 *
US-PATENT-CLASS-156-59 ..... c 31 N83-34073 *
US-PATENT-CLASS-156-600 ..... c 27 N83-36220 *
US-PATENT-CLASS-156-600 ..... c 76 N90-23242 *
US-PATENT-CLASS-156-600 ..... c 76 N90-24169 *
US-PATENT-CLASS-156-601 ..... c 76 N77-32919 *
US-PATENT-CLASS-156-601 ..... c 76 N80-32245 *
US-PATENT-CLASS-156-601 ..... c 76 N90-24169 *
US-PATENT-CLASS-156-602 ..... c 76 N82-30105 *
US-PATENT-CLASS-156-605 ..... c 44 N80-24741 *
US-PATENT-CLASS-156-607 ..... c 76 N87-23286 *
US-PATENT-CLASS-156-607 ..... c 76 N88-24544 *
US-PATENT-CLASS-156-607 ..... c 76 N90-24169 *
US-PATENT-CLASS-156-608 ..... c 76 N79-11920 *
US-PATENT-CLASS-156-608 ..... c 33 N81-19389 *
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US-PATENT-CLASS-156-608 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-608 ..... c 76 N83-35888 *
US-PATENT-CLASS-156-608 ..... c 76 N84-35113 *
US-PATENT-CLASS-156-608 ..... c 76 N90-23242 *
US-PATENT-CLASS-156-608 ..... c 76 N91-15898 *
US-PATENT-CLASS-156-60 ..... c 15 N71-22713 *
US-PATENT-CLASS-156-610 ..... c 76 N76-25049 *
US-PATENT-CLASS-156-610 ..... c 27 N83-36220 *
US-PATENT-CLASS-156-610 ..... c 76 N86-28760 *
US-PATENT-CLASS-156-612 ..... c 76 N76-25049 *
US-PATENT-CLASS-156-612 ..... c 44 N76-28635 *
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US-PATENT-CLASS-156-613 ..... c 76 N76-25049 *
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US-PATENT-CLASS-156-614 ..... c 44 N76-28635 *
US-PATENT-CLASS-156-616.41 .. c 76 N90-20896 *
US-PATENT-CLASS-156-616.4 .... c 76 N90-20896 *
US-PATENT-CLASS-156-617.1 .... c 76 N91-15898 *
US-PATENT-CLASS-156-617-H ... c 76 N87-23286 *
US-PATENT-CLASS-156-617-SP . c 76 N84-35113 *
US-PATENT-CLASS-156-617-SP . c 76 N87-23286 *
US-PATENT-CLASS-156-617-V ... c 76 N84-35113 *
US-PATENT-CLASS-156-617SP .. c 76 N79-11920 *
US-PATENT-CLASS-156-617SP .. c 76 N79-23798 *
US-PATENT-CLASS-156-617SP .. c 44 N80-24741 *
US-PATENT-CLASS-156-617SP .. c 76 N80-32245 *
US-PATENT-CLASS-156-619 ..... c 76 N77-32919 *
US-PATENT-CLASS-156-620.1 .... c 76 N91-15898 *
US-PATENT-CLASS-156-620.76 .. c 76 N88-24545 *
US-PATENT-CLASS-156-620 ..... c 76 N77-32919 *
US-PATENT-CLASS-156-621 ..... c 76 N88-14835 *
US-PATENT-CLASS-156-621 ..... c 76 N88-24544 *
US-PATENT-CLASS-156-622 ..... c 76 N88-14835 *
US-PATENT-CLASS-156-623Q .... c 76 N85-29800 *
US-PATENT-CLASS-156-624 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-624 ..... c 76 N86-28760 *
US-PATENT-CLASS-156-624 ..... c 76 N88-14835 *
US-PATENT-CLASS-156-624 ..... c 76 N88-24544 *
US-PATENT-CLASS-156-625 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-630 ..... c 35 N84-22930 *
US-PATENT-CLASS-156-633 ..... c 44 N78-25529 *
US-PATENT-CLASS-156-634 ..... c 24 N91-25199 *
US-PATENT-CLASS-156-635 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-643 ..... c 52 N84-23095 *
US-PATENT-CLASS-156-643 ..... c 31 N87-21160 *
US-PATENT-CLASS-156-643 ..... c 25 N91-31258 *
US-PATENT-CLASS-156-644 ..... c 52 N84-23095 *
US-PATENT-CLASS-156-645 ..... c 27 N77-32308 *
US-PATENT-CLASS-156-646 ..... c 31 N87-21160 *
US-PATENT-CLASS-156-647 ..... c 33 N81-26360 *
US-PATENT-CLASS-156-648 ..... c 33 N81-26360 *
US-PATENT-CLASS-156-649 ..... c 33 N81-26360 *
US-PATENT-CLASS-156-654 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-654 ..... c 35 N84-22930 *
US-PATENT-CLASS-156-659.1 .... c 31 N87-21160 *
US-PATENT-CLASS-156-661.1 .... c 31 N87-21160 *
US-PATENT-CLASS-156-662 ..... c 76 N83-20789 *
US-PATENT-CLASS-156-663 ..... c 27 N77-32308 *
US-PATENT-CLASS-156-668 ..... c 52 N84-23095 *
US-PATENT-CLASS-156-668 ..... c 25 N91-31258 *
US-PATENT-CLASS-156-66 ..... c 15 N72-11392 *
US-PATENT-CLASS-156-71 ..... c 33 N82-26571 *
US-PATENT-CLASS-156-71 ..... c 35 N84-12443 *
US-PATENT-CLASS-156-74 ..... c 24 N81-29163 *
US-PATENT-CLASS-156-7 ..... c 74 N75-12732 *
US-PATENT-CLASS-156-81 ..... c 27 N84-22748 *
US-PATENT-CLASS-156-84 ..... c 15 N72-16330 *
US-PATENT-CLASS-156-84 ..... c 37 N82-24491 *
US-PATENT-CLASS-156-85 ..... c 37 N82-24491 *
US-PATENT-CLASS-156-86 ..... c 15 N72-16330 *
US-PATENT-CLASS-156-86 ..... c 37 N82-24491 *
US-PATENT-CLASS-156-87 ..... c 37 N87-23981 *
US-PATENT-CLASS-156-89 ..... c 37 N75-15992 *
US-PATENT-CLASS-156-89 ..... c 24 N79-25143 *
US-PATENT-CLASS-156-89 ..... c 27 N84-22748 *
US-PATENT-CLASS-156-904 ..... c 31 N87-21160 *

US-PATENT-CLASS-156-905 ..... c 35 N84-22930 *
US-PATENT-CLASS-156-94 ..... c 32 N74-27612 *
US-PATENT-CLASS-156-94 ..... c 24 N74-30001 *
US-PATENT-CLASS-156-99 ..... c 37 N75-15992 *
US-PATENT-CLASS-159-3 ..... c 25 N88-23846 *
US-PATENT-CLASS-159-48.2 ..... c 25 N88-23846 *
US-PATENT-CLASS-159-900 ..... c 25 N88-23846 *
US-PATENT-CLASS-16-242 ..... c 31 N86-19479 *
US-PATENT-CLASS-16-292 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-294 ..... c 37 N86-19605 *
US-PATENT-CLASS-16-294 ..... c 18 N87-14373 *
US-PATENT-CLASS-16-297 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-326 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-332 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-345 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-347 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-349 ..... c 18 N88-23827 *
US-PATENT-CLASS-16-370 ..... c 18 N87-14373 *
US-PATENT-CLASS-16-390 ..... c 31 N86-19479 *
US-PATENT-CLASS-160-23R ..... c 37 N87-17036 *
US-PATENT-CLASS-160-265 ..... c 37 N87-17036 *
US-PATENT-CLASS-161-115 ..... c 18 N70-41583 *
US-PATENT-CLASS-161-116 ..... c 37 N74-23064 *
US-PATENT-CLASS-161-127 ..... c 18 N72-25540 *
US-PATENT-CLASS-161-127 ..... c 18 N72-25541 *
US-PATENT-CLASS-161-161 ..... c 33 N71-25351 *
US-PATENT-CLASS-161-182 ..... c 15 N69-39735 * #
US-PATENT-CLASS-161-182 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-189 ..... c 23 N71-15978 *
US-PATENT-CLASS-161-192 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-196 ..... c 37 N74-21063 *
US-PATENT-CLASS-161-214 ..... c 06 N73-27980 *
US-PATENT-CLASS-161-227 ..... c 06 N73-27980 *
US-PATENT-CLASS-161-42 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-43 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-67 ..... c 33 N72-17947 *
US-PATENT-CLASS-161-68 ..... c 18 N71-21651 *
US-PATENT-CLASS-161-68 ..... c 18 N72-25540 *
US-PATENT-CLASS-161-68 ..... c 18 N72-25541 *
US-PATENT-CLASS-161-69 ..... c 33 N71-24858 *
US-PATENT-CLASS-161-7 ..... c 18 N72-25540 *
US-PATENT-CLASS-161-7 ..... c 18 N72-25541 *
US-PATENT-CLASS-161-89 ..... c 17 N71-28747 *
US-PATENT-CLASS-161-92 ..... c 37 N75-26371 *
US-PATENT-CLASS-161-93 ..... c 18 N73-12604 *
US-PATENT-CLASS-161-93 ..... c 37 N74-18126 *
US-PATENT-CLASS-161-93 ..... c 37 N75-26371 *
US-PATENT-CLASS-162-102 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-14 ..... c 85 N79-17747 *
US-PATENT-CLASS-162-153 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-222 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-228 ..... c 24 N76-14204 *
US-PATENT-CLASS-162-29 ..... c 85 N79-17747 *
US-PATENT-CLASS-164-105 ..... c 20 N79-21123 *
US-PATENT-CLASS-164-113 ..... c 31 N90-21216 *
US-PATENT-CLASS-164-119 ..... c 24 N84-16262 *
US-PATENT-CLASS-164-122.1 .... c 26 N91-14462 *
US-PATENT-CLASS-164-132 ..... c 37 N76-23570 *
US-PATENT-CLASS-164-284 ..... c 31 N90-21216 *
US-PATENT-CLASS-164-331.12 .. c 27 N83-34041 *
US-PATENT-CLASS-164-338.1 .... c 26 N91-14462 *
US-PATENT-CLASS-164-60 ..... c 24 N77-27187 *
US-PATENT-CLASS-165-DIG.6 .... c 34 N84-22903 *
US-PATENT-CLASS-165-104.14 .. c 05 N81-26114 *
US-PATENT-CLASS-165-104.14 .. c 34 N85-29179 *
US-PATENT-CLASS-165-104.14 .. c 34 N86-27593 *
US-PATENT-CLASS-165-104.14 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.14 .. c 34 N88-23958 *
US-PATENT-CLASS-165-104.14 .. c 34 N89-14392 *
US-PATENT-CLASS-165-104.14 .. c 34 N91-21473 *
US-PATENT-CLASS-165-104.25 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.26 .. c 74 N83-19596 *
US-PATENT-CLASS-165-104.26 .. c 34 N83-35307 *
US-PATENT-CLASS-165-104.26 .. c 34 N85-21568 *
US-PATENT-CLASS-165-104.26 .. c 34 N85-29180 *
US-PATENT-CLASS-165-104.26 .. c 34 N86-27593 *
US-PATENT-CLASS-165-104.26 .. c 34 N87-22950 *
US-PATENT-CLASS-165-104.26 .. c 34 N88-29133 *
US-PATENT-CLASS-165-104.26 .. c 34 N89-14392 *
US-PATENT-CLASS-165-104.26 .. c 27 N90-23541 *
US-PATENT-CLASS-165-104.26 .. c 31 N90-23587 *
US-PATENT-CLASS-165-104.31 .. c 31 N91-15424 *
US-PATENT-CLASS-165-104 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-104 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-105 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-105 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-105 ..... c 33 N72-17948 *
US-PATENT-CLASS-165-105 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-105 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-105 ..... c 34 N74-18552 *
US-PATENT-CLASS-165-105 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-105 ..... c 44 N75-32581 *
US-PATENT-CLASS-165-105 ..... c 44 N76-16612 *
US-PATENT-CLASS-165-105 ..... c 34 N76-17317 *
US-PATENT-CLASS-165-105 ..... c 34 N76-27515 *
US-PATENT-CLASS-165-105 ..... c 34 N77-32413 *
US-PATENT-CLASS-165-105 ..... c 25 N78-10224 *
US-PATENT-CLASS-165-105 ..... c 34 N78-17336 *
US-PATENT-CLASS-165-105 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-105 ..... c 44 N79-18443 *
US-PATENT-CLASS-165-105 ..... c 37 N79-28549 *
US-PATENT-CLASS-165-105 ..... c 34 N79-31523 *
US-PATENT-CLASS-165-105 ..... c 35 N81-14287 *
US-PATENT-CLASS-165-106 ..... c 33 N73-32818 *
US-PATENT-CLASS-165-106 ..... c 34 N76-17317 *
US-PATENT-CLASS-165-107 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-107 ..... c 44 N77-32581 *
US-PATENT-CLASS-165-109 ..... c 35 N74-15093 *
US-PATENT-CLASS-165-10 ..... c 44 N76-31667 *
US-PATENT-CLASS-165-110 ..... c 77 N75-20139 *
US-PATENT-CLASS-165-111 ..... c 77 N75-20139 *
US-PATENT-CLASS-165-12 ..... c 33 N71-24276 *
US-PATENT-CLASS-165-12 ..... c 34 N83-34221 *
US-PATENT-CLASS-165-133 ..... c 33 N71-16277 *
US-PATENT-CLASS-165-133 ..... c 33 N71-25353 *
US-PATENT-CLASS-165-133 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-133 ..... c 44 N76-23675 *
US-PATENT-CLASS-165-133 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-134R .... c 74 N83-19596 *
US-PATENT-CLASS-165-134 ..... c 34 N78-17336 *
US-PATENT-CLASS-165-135 ..... c 34 N84-22903 *
US-PATENT-CLASS-165-138 ..... c 09 N71-24807 *
US-PATENT-CLASS-165-13 ..... c 34 N88-23958 *
US-PATENT-CLASS-165-141 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-146 ..... c 34 N79-13289 *
US-PATENT-CLASS-165-155 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-156 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-158 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-161 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-164 ..... c 34 N77-10463 *
US-PATENT-CLASS-165-166 ..... c 54 N77-32722 *
US-PATENT-CLASS-165-169 ..... c 34 N79-13288 *
US-PATENT-CLASS-165-169 ..... c 34 N79-13289 *
US-PATENT-CLASS-165-16 ..... c 31 N80-32583 *
US-PATENT-CLASS-165-170 ..... c 34 N77-10463 *
US-PATENT-CLASS-165-170 ..... c 34 N88-29132 *
US-PATENT-CLASS-165-174 ..... c 33 N72-20915 *
US-PATENT-CLASS-165-180 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-185 ..... c 28 N73-32606 *
US-PATENT-CLASS-165-185 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-185 ..... c 31 N91-27385 *
US-PATENT-CLASS-165-1 ..... c 09 N70-41717 *
US-PATENT-CLASS-165-1 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-1 ..... c 34 N85-29180 *
US-PATENT-CLASS-165-1 ..... c 34 N87-22950 *
US-PATENT-CLASS-165-1 ..... c 34 N88-23958 *
US-PATENT-CLASS-165-1 ..... c 31 N91-27385 *
US-PATENT-CLASS-165-20 ..... c 03 N72-28025 *
US-PATENT-CLASS-165-20 ..... c 35 N91-21496 *
US-PATENT-CLASS-165-2 ..... c 33 N71-24876 *
US-PATENT-CLASS-165-2 ..... c 35 N74-15093 *
US-PATENT-CLASS-165-2 ..... c 44 N77-32581 *
US-PATENT-CLASS-165-2 ..... c 44 N78-17460 *
US-PATENT-CLASS-165-2 ..... c 51 N79-10694 *
US-PATENT-CLASS-165-2 ..... c 27 N83-36220 *
US-PATENT-CLASS-165-30 ..... c 51 N79-10694 *
US-PATENT-CLASS-165-30 ..... c 31 N79-17029 *
US-PATENT-CLASS-165-30 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-32 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-32 ..... c 33 N73-32818 *
US-PATENT-CLASS-165-32 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-32 ..... c 34 N79-31523 *
US-PATENT-CLASS-165-32 ..... c 44 N80-20810 *
US-PATENT-CLASS-165-32 ..... c 33 N82-24419 *
US-PATENT-CLASS-165-32 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-32 ..... c 34 N83-35307 *
US-PATENT-CLASS-165-32 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-32 ..... c 34 N85-29179 *
US-PATENT-CLASS-165-32 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-34 ..... c 34 N87-22950 *
US-PATENT-CLASS-165-3 ..... c 03 N72-28025 *
US-PATENT-CLASS-165-41 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-41 ..... c 34 N86-27593 *
US-PATENT-CLASS-165-41 ..... c 34 N88-23958 *
US-PATENT-CLASS-165-41 ..... c 35 N89-12048 *
US-PATENT-CLASS-165-41 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-41 ..... c 27 N90-23541 *
US-PATENT-CLASS-165-41 ..... c 31 N90-23587 *
US-PATENT-CLASS-165-41 ..... c 31 N91-15424 *
US-PATENT-CLASS-165-44 ..... c 15 N71-26611 *
US-PATENT-CLASS-165-46 ..... c 05 N71-19439 *
US-PATENT-CLASS-165-46 ..... c 05 N71-24147 *
US-PATENT-CLASS-165-46 ..... c 05 N73-20137 *
US-PATENT-CLASS-165-46 ..... c 05 N73-26071 *
US-PATENT-CLASS-165-46 ..... c 54 N82-29002 *
US-PATENT-CLASS-165-46 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-47 ..... c 33 N71-29052 *
US-PATENT-CLASS-165-47 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-47 ..... c 34 N75-12222 *
US-PATENT-CLASS-165-48R ..... c 35 N85-29214 *
US-PATENT-CLASS-165-58 ..... c 27 N83-36220 *
US-PATENT-CLASS-165-61 ..... c 34 N83-34221 *
US-PATENT-CLASS-165-61 ..... c 35 N85-29214 *
US-PATENT-CLASS-165-61 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-61 ..... c 31 N89-12785 *
US-PATENT-CLASS-165-64 ..... c 35 N85-29214 *
US-PATENT-CLASS-165-65 ..... c 35 N86-20750 *
US-PATENT-CLASS-165-76 ..... c 34 N83-28356 *
US-PATENT-CLASS-165-76 ..... c 37 N86-32736 * #
US-PATENT-CLASS-165-78 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-80E ..... c 34 N83-34221 *
US-PATENT-CLASS-165-81 ..... c 34 N88-29132 *
US-PATENT-CLASS-165-81 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-83 ..... c 25 N90-11824 *
US-PATENT-CLASS-165-86 ..... c 15 N71-26611 *
US-PATENT-CLASS-165-86 ..... c 33 N71-29046 *
US-PATENT-CLASS-165-86 ..... c 34 N91-21473 *
US-PATENT-CLASS-165-904 ..... c 35 N89-12048 *
US-PATENT-CLASS-165-904 ..... c 31 N91-15424 *
US-PATENT-CLASS-165-905 ..... c 34 N88-29133 *
US-PATENT-CLASS-165-905 ..... c 34 N90-20323 *
US-PATENT-CLASS-165-905 ..... c 27 N90-23541 *
US-PATENT-CLASS-165-96 ..... c 33 N70-36847 *
US-PATENT-CLASS-165-96 ..... c 33 N71-22890 *
US-PATENT-CLASS-165-96 ..... c 31 N73-30829 *
US-PATENT-CLASS-165-96 ..... c 33 N73-32818 *
US-PATENT-CLASS-165-96 ..... c 34 N78-17337 *
US-PATENT-CLASS-165-96 ..... c 34 N84-14461 *
US-PATENT-CLASS-165-96 ..... c 31 N89-12785 *
US-PATENT-CLASS-165-96 ..... c 34 N90-21999 *
US-PATENT-CLASS-165-96 ..... c 34 N91-21473 *
US-PATENT-CLASS-166-222 ..... c 43 N81-26509 *
US-PATENT-CLASS-166-248 ..... c 43 N78-14452 *
US-PATENT-CLASS-166-259 ..... c 43 N78-14452 *
US-PATENT-CLASS-166-267 ..... c 25 N82-23282 *
US-PATENT-CLASS-166-303 ..... c 25 N82-23282 *
US-PATENT-CLASS-166-343 ..... c 18 N90-20126 *
US-PATENT-CLASS-166-63 ..... c 46 N79-22679 *
US-PATENT-CLASS-166-77 ..... c 43 N81-26509 *
US-PATENT-CLASS-169-28 ..... c 12 N72-21310 *
US-PATENT-CLASS-169-36 ..... c 12 N72-21310 *
US-PATENT-CLASS-169-47 ..... c 25 N83-36118 *
US-PATENT-CLASS-169-62 ..... c 31 N81-14137 *
US-PATENT-CLASS-169-70 ..... c 31 N81-14137 *
US-PATENT-CLASS-173-131 ..... c 15 N73-13463 *
US-PATENT-CLASS-173-132 ..... c 37 N76-18454 *
US-PATENT-CLASS-174-DIG.6 .... c 26 N73-26752 *
US-PATENT-CLASS-174-DIG.6 .... c 26 N73-32571 *
US-PATENT-CLASS-174-DIG.8 .... c 33 N74-22865 *
US-PATENT-CLASS-174-106R .... c 09 N72-22198 *
US-PATENT-CLASS-174-110.3 .... c 14 N71-27186 *
US-PATENT-CLASS-174-111 ..... c 33 N74-27683 *
US-PATENT-CLASS-174-115 ..... c 09 N70-38201 *
US-PATENT-CLASS-174-117FF .. c 09 N72-22198 *
US-PATENT-CLASS-174-126CP .. c 26 N73-32571 *
US-PATENT-CLASS-174-142 ..... c 33 N80-18286 *
US-PATENT-CLASS-174-145 ..... c 33 N76-16332 *
US-PATENT-CLASS-174-148 ..... c 33 N76-16332 *
US-PATENT-CLASS-174-15CA .... c 31 N79-17029 *
US-PATENT-CLASS-174-15C ..... c 33 N74-27683 *
US-PATENT-CLASS-174-18 ..... c 09 N69-21542 * #
US-PATENT-CLASS-174-28 ..... c 07 N71-27191 *
US-PATENT-CLASS-174-28 ..... c 33 N74-27683 *
US-PATENT-CLASS-174-35 ..... c 07 N71-19436 *
US-PATENT-CLASS-174-36 ..... c 09 N72-22198 *
US-PATENT-CLASS-174-52-PE ... c 33 N88-23941 *
US-PATENT-CLASS-174-52-R ..... c 33 N88-23941 *
US-PATENT-CLASS-174-52-S ..... c 33 N88-23941 *
US-PATENT-CLASS-174-52S ..... c 15 N73-14469 *
US-PATENT-CLASS-174-68.5 ..... c 15 N70-41960 *
US-PATENT-CLASS-174-69 ..... c 33 N74-22865 *
US-PATENT-CLASS-174-70R ..... c 33 N74-22865 *
US-PATENT-CLASS-174-72 ..... c 03 N69-21539 * #
US-PATENT-CLASS-174-73R ..... c 33 N80-18286 *
US-PATENT-CLASS-174-84 ..... c 15 N72-17455 *
US-PATENT-CLASS-175-1 ..... c 46 N79-22679 *
US-PATENT-CLASS-175-26 ..... c 15 N73-32362 *
US-PATENT-CLASS-175-310 ..... c 15 N70-42034 *
US-PATENT-CLASS-175-323 ..... c 14 N69-21923 * #
US-PATENT-CLASS-175-45 ..... c 35 N84-33768 *
US-PATENT-CLASS-175-78 ..... c 46 N80-10709 *
US-PATENT-CLASS-176-11 ..... c 24 N72-33681 *
US-PATENT-CLASS-176-11 ..... c 25 N76-27383 *
US-PATENT-CLASS-176-11 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-11 ..... c 25 N78-27226 *
US-PATENT-CLASS-176-14 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-169 ..... c 22 N73-32528 *
US-PATENT-CLASS-176-16 ..... c 25 N76-27383 *
US-PATENT-CLASS-176-16 ..... c 25 N76-29379 *
US-PATENT-CLASS-176-16 ..... c 25 N78-27226 *
US-PATENT-CLASS-176-22 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-33 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-39 ..... c 73 N78-19920 *
US-PATENT-CLASS-176-39 ..... c 73 N78-28913 *
US-PATENT-CLASS-176-3 ..... c 75 N75-13625 *
US-PATENT-CLASS-176-45 ..... c 22 N71-28759 *
US-PATENT-CLASS-176-86G ..... c 22 N72-20597 *
US-PATENT-CLASS-177-147 ..... c 35 N85-20294 *

US-PATENT-CLASS-177-1 ..... c 35 N77-19385 *
US-PATENT-CLASS-177-200 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-208 ..... c 35 N77-19385 *
US-PATENT-CLASS-177-210 ..... c 14 N71-10773 *
US-PATENT-CLASS-177-211 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-246 ..... c 35 N74-26945 *
US-PATENT-CLASS-177-260 ..... c 35 N85-20294 *
US-PATENT-CLASS-178-DIG.12 . c 07 N72-12081 *
US-PATENT-CLASS-178-DIG.12 . c 32 N75-21485 *
US-PATENT-CLASS-178-DIG.1 .... c 36 N74-20009 *
US-PATENT-CLASS-178-DIG.1 .... c 33 N75-30431 *
US-PATENT-CLASS-178-DIG.1 .... c 45 N76-17656 *
US-PATENT-CLASS-178-DIG.20 c 18 N76-14186 *
US-PATENT-CLASS-178-DIG.20 . c 23 N72-27728 *
US-PATENT-CLASS-178-DIG.20 . c 35 N75-19613 *
US-PATENT-CLASS-178-DIG.21 . c 16 N72-13437 *
US-PATENT-CLASS-178-DIG.23 . c 07 N73-30115 *
US-PATENT-CLASS-178-DIG.25 . c 74 N75-25706 *
US-PATENT-CLASS-178-DIG.28 . c 08 N72-22164 *
US-PATENT-CLASS-178-DIG.29 . c 35 N75-25123 *
US-PATENT-CLASS-178-DIG.32 . c 71 N74-21014 *
US-PATENT-CLASS-178-DIG.35 . c 09 N76-24280 *
US-PATENT-CLASS-178-DIG.36 . c 08 N72-22164 *
US-PATENT-CLASS-178-DIG.6 .... c 10 N73-13235 *
US-PATENT-CLASS-178-DIG.8 .... c 14 N72-25412 *
US-PATENT-CLASS-178-DIG.8 .... c 45 N76-17656 *
US-PATENT-CLASS-178-15 ..... c 33 N75-19517 *
US-PATENT-CLASS-178-18 ..... c 10 N73-32143 *
US-PATENT-CLASS-178-22.16 .... c 32 N82-31583 *
US-PATENT-CLASS-178-22.17 .... c 32 N82-31583 *
US-PATENT-CLASS-178-5.2R ..... c 09 N71-28618 *
US-PATENT-CLASS-178-5.2R ..... c 07 N72-17109 *
US-PATENT-CLASS-178-5.4 ..... c 07 N72-17109 *
US-PATENT-CLASS-178-5.8R ..... c 71 N74-21014 *
US-PATENT-CLASS-178-50 ..... c 08 N72-18184 *
US-PATENT-CLASS-178-50 ..... c 08 N72-25208 *
US-PATENT-CLASS-178-52 ..... c 08 N72-22162 *
US-PATENT-CLASS-178-54CF .... c 09 N71-28618 *
US-PATENT-CLASS-178-54PE .... c 09 N71-28618 *
US-PATENT-CLASS-178-58A ..... c 32 N75-21486 *
US-PATENT-CLASS-178-58R ..... c 32 N80-18252 *
US-PATENT-CLASS-178-6.5 ..... c 23 N72-27728 *
US-PATENT-CLASS-178-6.6DD ... c 07 N73-30115 *
US-PATENT-CLASS-178-6.6DD ... c 35 N74-11283 *
US-PATENT-CLASS-178-6.6 ..... c 07 N71-11300 *
US-PATENT-CLASS-178-6.6 ..... c 07 N71-26102 *
US-PATENT-CLASS-178-6.7R ..... c 35 N74-15831 *
US-PATENT-CLASS-178-6.7 ..... c 07 N72-17109 *
US-PATENT-CLASS-178-6.8 ..... c 08 N72-22164 *
US-PATENT-CLASS-178-6.8 ..... c 14 N72-25412 *
US-PATENT-CLASS-178-6.8 ..... c 07 N73-30115 *
US-PATENT-CLASS-178-6.8 ..... c 33 N75-30431 *
US-PATENT-CLASS-178-6.8 ..... c 45 N76-17656 *
US-PATENT-CLASS-178-66R ..... c 32 N75-24981 *
US-PATENT-CLASS-178-66 ..... c 09 N71-25866 *
US-PATENT-CLASS-178-66 ..... c 08 N72-18184 *
US-PATENT-CLASS-178-67 ..... c 08 N70-41961 *
US-PATENT-CLASS-178-67 ..... c 32 N74-26654 *
US-PATENT-CLASS-178-69.1 ..... c 32 N78-15323 *
US-PATENT-CLASS-178-69.4R ... c 32 N74-10132 *
US-PATENT-CLASS-178-69.5R ... c 07 N72-20140 *
US-PATENT-CLASS-178-69.5R ... c 32 N75-26195 *
US-PATENT-CLASS-178-69.5R ... c 33 N76-14371 *
US-PATENT-CLASS-178-69.5R ... c 60 N77-19760 *
US-PATENT-CLASS-178-69.5 ..... c 07 N71-11281 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-19468 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-25865 *
US-PATENT-CLASS-178-69.5 ..... c 10 N71-33407 *
US-PATENT-CLASS-178-69.5 ..... c 07 N72-25173 *
US-PATENT-CLASS-178-69.5 ..... c 07 N73-13149 *
US-PATENT-CLASS-178-69.5 ..... c 09 N73-28084 *
US-PATENT-CLASS-178-69.5 ..... c 17 N76-22245 *
US-PATENT-CLASS-178-69A ..... c 35 N75-21582 *
US-PATENT-CLASS-178-69C ..... c 32 N76-16249 *
US-PATENT-CLASS-178-6 ..... c 07 N71-19433 *
US-PATENT-CLASS-178-6 ..... c 09 N71-19449 *
US-PATENT-CLASS-178-6 ..... c 07 N71-23026 *
US-PATENT-CLASS-178-6 ..... c 07 N71-26579 *
US-PATENT-CLASS-178-6 ..... c 07 N72-12081 *
US-PATENT-CLASS-178-6 ..... c 16 N72-13437 *
US-PATENT-CLASS-178-6 ..... c 10 N73-13235 *
US-PATENT-CLASS-178-6 ..... c 36 N74-20009 *
US-PATENT-CLASS-178-7.1 ..... c 07 N71-24612 *
US-PATENT-CLASS-178-7.1 ..... c 07 N71-27341 *
US-PATENT-CLASS-178-7.1 ..... c 09 N72-17156 *
US-PATENT-CLASS-178-7.1 ..... c 32 N74-19790 *
US-PATENT-CLASS-178-7.1 ..... c 36 N75-19652 *
US-PATENT-CLASS-178-7.2R ..... c 08 N72-22164 *
US-PATENT-CLASS-178-7.2 ..... c 14 N70-41807 *
US-PATENT-CLASS-178-7.2 ..... c 71 N74-21014 *
US-PATENT-CLASS-178-7.2 ..... c 35 N75-25123 *
US-PATENT-CLASS-178-7.3 ..... c 07 N71-27341 *
US-PATENT-CLASS-178-7.3 ..... c 07 N72-12081 *
US-PATENT-CLASS-178-7.5E ..... c 10 N72-31273 *
US-PATENT-CLASS-178-7.6 ..... c 36 N74-20009 *
US-PATENT-CLASS-178-7.7 ..... c 09 N71-12539 *
US-PATENT-CLASS-178-7.7 ..... c 32 N74-20813 *
US-PATENT-CLASS-178-7.89 ..... c 09 N76-24280 *
US-PATENT-CLASS-178-7.92 ..... c 14 N72-25414 *
US-PATENT-CLASS-178-79 ..... c 32 N75-21486 *
US-PATENT-CLASS-178-88 ..... c 07 N71-12392 *
US-PATENT-CLASS-178-88 ..... c 33 N74-12887 *
US-PATENT-CLASS-178-88 ..... c 32 N74-20809 *
US-PATENT-CLASS-178-88 ..... c 33 N74-27705 *
US-PATENT-CLASS-178-88 ..... c 33 N76-14371 *
US-PATENT-CLASS-178-88 ..... c 32 N76-16249 *
US-PATENT-CLASS-178-88 ..... c 32 N77-10392 *
US-PATENT-CLASS-178-88 ..... c 32 N77-24331 *
US-PATENT-CLASS-179-1DM ..... c 71 N79-23753 *
US-PATENT-CLASS-179-1MF ..... c 71 N79-23753 *
US-PATENT-CLASS-179-1MN ..... c 32 N79-23310 *
US-PATENT-CLASS-179-1P ..... c 10 N73-12244 *
US-PATENT-CLASS-179-1R ..... c 07 N71-33108 *
US-PATENT-CLASS-179-1SA ..... c 10 N73-25240 *
US-PATENT-CLASS-179-1SA ..... c 32 N76-31372 *
US-PATENT-CLASS-179-1SA ..... c 32 N77-30309 *
US-PATENT-CLASS-179-1SP ..... c 32 N77-30309 *
US-PATENT-CLASS-179-1VC ..... c 07 N71-33108 *
US-PATENT-CLASS-179-100.2A . c 21 N73-13644 *
US-PATENT-CLASS-179-100.2A . c 32 N74-27612 *
US-PATENT-CLASS-179-100.2B . c 32 N74-27612 *
US-PATENT-CLASS-179-100.2CH c 36 N74-13205 *
US-PATENT-CLASS-179-100.2CH c 35 N78-29421 *
US-PATENT-CLASS-179-100.2CH c 35 N79-16246 *
US-PATENT-CLASS-179-100.2C . c 35 N77-21392 *
US-PATENT-CLASS-179-100.2K . c 07 N72-21119 *
US-PATENT-CLASS-179-100.2MD c 35 N74-11283 *
US-PATENT-CLASS-179-100.2T .. c 35 N74-11283 *
US-PATENT-CLASS-179-100.2 .... c 09 N69-24329 * #
US-PATENT-CLASS-179-100.2 .... c 09 N71-25866 *
US-PATENT-CLASS-179-100.2 .... c 08 N71-27210 *
US-PATENT-CLASS-179-100.2 .... c 08 N71-27255 *
US-PATENT-CLASS-179-100-2CA c 09 N72-11224 *
US-PATENT-CLASS-179-100-2MD c 09 N72-11224 *
US-PATENT-CLASS-179-107R .... c 33 N78-10375 *
US-PATENT-CLASS-179-15.55R . c 08 N72-11171 *
US-PATENT-CLASS-179-15.55R . c 08 N72-33172 *
US-PATENT-CLASS-179-15AN .... c 07 N73-16121 *
US-PATENT-CLASS-179-15AT .... c 32 N74-30524 *
US-PATENT-CLASS-179-15A ..... c 08 N72-22162 *
US-PATENT-CLASS-179-15A ..... c 07 N73-26118 *
US-PATENT-CLASS-179-15BA .... c 60 N77-12721 *
US-PATENT-CLASS-179-15BA .... c 32 N80-18252 *
US-PATENT-CLASS-179-15BC .... c 08 N72-25208 *
US-PATENT-CLASS-179-15BC .... c 07 N73-16121 *
US-PATENT-CLASS-179-15BC .... c 32 N74-30523 *
US-PATENT-CLASS-179-15BC .... c 33 N75-26243 *
US-PATENT-CLASS-179-15BL .... c 08 N72-22162 *
US-PATENT-CLASS-179-15BM ... c 07 N73-26118 *
US-PATENT-CLASS-179-15BS .... c 10 N71-33407 *
US-PATENT-CLASS-179-15BS .... c 07 N72-20140 *
US-PATENT-CLASS-179-15BS .... c 07 N73-30115 *
US-PATENT-CLASS-179-15BS .... c 32 N75-26195 *
US-PATENT-CLASS-179-15BS .... c 60 N77-19760 *
US-PATENT-CLASS-179-15BV .... c 07 N72-25172 *
US-PATENT-CLASS-179-15BY .... c 32 N74-30524 *
US-PATENT-CLASS-179-15FD .... c 08 N72-25208 *
US-PATENT-CLASS-179-15FS .... c 07 N73-28012 *
US-PATENT-CLASS-179-15 ..... c 07 N69-39978 * #
US-PATENT-CLASS-179-15 ..... c 07 N71-20814 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24621 *
US-PATENT-CLASS-179-15 ..... c 07 N71-24622 *
US-PATENT-CLASS-179-15 ..... c 08 N72-18184 *
US-PATENT-CLASS-179-175.1A . c 14 N73-27379 *
US-PATENT-CLASS-179-175.1A . c 33 N78-10375 *
US-PATENT-CLASS-179-18BC .... c 32 N86-27513 *
US-PATENT-CLASS-179-18GF .... c 33 N82-29538 *
US-PATENT-CLASS-179-1 ..... c 07 N71-26181 *
US-PATENT-CLASS-179-1 ..... c 31 N71-33160 *
US-PATENT-CLASS-179-27CA .... c 32 N79-23310 *
US-PATENT-CLASS-179-78 ..... c 33 N81-27397 *
US-PATENT-CLASS-179-84VF .... c 32 N79-23310 *
US-PATENT-CLASS-179-91R ..... c 74 N78-14889 *
US-PATENT-CLASS-18-26 ..... c 06 N71-22975 *
US-PATENT-CLASS-18-39 ..... c 27 N70-34783 *
US-PATENT-CLASS-18-6 ..... c 15 N71-26721 *
US-PATENT-CLASS-180-105E ..... c 11 N72-20244 *
US-PATENT-CLASS-180-118 ..... c 31 N71-15689 *
US-PATENT-CLASS-180-121 ..... c 31 N71-15689 *
US-PATENT-CLASS-180-125 ..... c 15 N72-17451 *
US-PATENT-CLASS-180-127 ..... c 15 N72-17451 *
US-PATENT-CLASS-180-168 ..... c 35 N84-33769 *
US-PATENT-CLASS-180-19.2 ..... c 85 N87-21755 *
US-PATENT-CLASS-180-305 ..... c 85 N87-21755 *
US-PATENT-CLASS-180-41 ..... c 11 N73-26238 *
US-PATENT-CLASS-180-6.5 ..... c 11 N73-26238 *
US-PATENT-CLASS-180-7R ..... c 11 N73-26238 *
US-PATENT-CLASS-180-79.3 ..... c 37 N74-18125 *
US-PATENT-CLASS-180-8.6 ..... c 18 N88-23828 *
US-PATENT-CLASS-180-8A ..... c 11 N73-26238 *
US-PATENT-CLASS-180-9.2R ..... c 11 N73-26238 *
US-PATENT-CLASS-180-9.5 ..... c 11 N73-26238 *
US-PATENT-CLASS-181.5R ..... c 71 N74-31148 *
US-PATENT-CLASS-181-.5 ..... c 11 N71-28779 *
US-PATENT-CLASS-181-0.5 ..... c 71 N85-30765 *
US-PATENT-CLASS-181-0.5 ..... c 71 N88-24241 *
US-PATENT-CLASS-181-0.5 ..... c 31 N90-21215 *
US-PATENT-CLASS-181-0.5 ..... c 71 N91-14808 *
US-PATENT-CLASS-181-102 ..... c 39 N80-10507 *
US-PATENT-CLASS-181-102 ..... c 31 N80-32584 *
US-PATENT-CLASS-181-105 ..... c 39 N80-10507 *
US-PATENT-CLASS-181-106 ..... c 46 N79-22679 *
US-PATENT-CLASS-181-115 ..... c 46 N79-23555 *
US-PATENT-CLASS-181-117 ..... c 46 N79-22679 *
US-PATENT-CLASS-181-120 ..... c 46 N79-23555 *
US-PATENT-CLASS-181-121 ..... c 35 N84-22933 *
US-PATENT-CLASS-181-148 ..... c 71 N79-23753 *
US-PATENT-CLASS-181-190 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-206 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-213 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-213 ..... c 07 N83-33884 *
US-PATENT-CLASS-181-214 ..... c 07 N81-14999 *
US-PATENT-CLASS-181-214 ..... c 71 N82-16800 *
US-PATENT-CLASS-181-222 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-286 ..... c 24 N90-21822 *
US-PATENT-CLASS-181-286 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-290 ..... c 24 N90-21822 *
US-PATENT-CLASS-181-290 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-293 ..... c 71 N79-14871 *
US-PATENT-CLASS-181-295 ..... c 71 N91-27913 *
US-PATENT-CLASS-181-33C ..... c 07 N74-32418 *
US-PATENT-CLASS-181-33F ..... c 07 N74-32418 *
US-PATENT-CLASS-181-33HB .... c 07 N74-27490 *
US-PATENT-CLASS-181-33HC .... c 07 N74-33218 *
US-PATENT-CLASS-181-33HC .... c 07 N76-18117 *
US-PATENT-CLASS-181-33H ..... c 07 N74-32418 *
US-PATENT-CLASS-181-33L ..... c 07 N74-32418 *
US-PATENT-CLASS-181-42 ..... c 07 N74-32418 *
US-PATENT-CLASS-181-43 ..... c 07 N74-15453 *
US-PATENT-CLASS-181-52 ..... c 28 N70-41582 *
US-PATENT-CLASS-182-103 ..... c 18 N89-12621 *
US-PATENT-CLASS-182-10 ..... c 15 N71-27067 *
US-PATENT-CLASS-182-152 ..... c 31 N87-25492 *
US-PATENT-CLASS-182-178 ..... c 39 N76-31562 *
US-PATENT-CLASS-182-191 ..... c 05 N71-11199 *
US-PATENT-CLASS-182-223 ..... c 54 N87-29118 *
US-PATENT-CLASS-182-5 ..... c 15 N73-25512 *
US-PATENT-CLASS-182-62.5 ..... c 31 N81-27324 *
US-PATENT-CLASS-182-63 ..... c 54 N87-29118 *
US-PATENT-CLASS-182-82 ..... c 54 N87-29118 *
US-PATENT-CLASS-184-1 ..... c 15 N71-23048 *
US-PATENT-CLASS-185-38 ..... c 37 N78-16369 *
US-PATENT-CLASS-187-1 ..... c 15 N72-25453 *
US-PATENT-CLASS-187-20 ..... c 15 N72-25453 *
US-PATENT-CLASS-187-7.1 ..... c 07 N71-24742 *
US-PATENT-CLASS-187-95 ..... c 15 N72-25453 *
US-PATENT-CLASS-188-1B ..... c 15 N72-20443 *
US-PATENT-CLASS-188-1B ..... c 19 N76-22284 *
US-PATENT-CLASS-188-1C ..... c 15 N72-17450 *
US-PATENT-CLASS-188-1C ..... c 15 N72-20443 *
US-PATENT-CLASS-188-1C ..... c 15 N73-30460 *
US-PATENT-CLASS-188-1C ..... c 11 N73-32152 *
US-PATENT-CLASS-188-1C ..... c 37 N79-10420 *
US-PATENT-CLASS-188-103 ..... c 15 N71-27146 *
US-PATENT-CLASS-188-129 ..... c 15 N72-17450 *
US-PATENT-CLASS-188-134 ..... c 37 N81-15364 *
US-PATENT-CLASS-188-151A .... c 44 N79-14527 *
US-PATENT-CLASS-188-163 ..... c 37 N74-26976 *
US-PATENT-CLASS-188-171 ..... c 37 N74-26976 *
US-PATENT-CLASS-188-180 ..... c 37 N81-15364 *
US-PATENT-CLASS-188-184 ..... c 37 N81-15364 *
US-PATENT-CLASS-188-1 ..... c 15 N70-34861 *
US-PATENT-CLASS-188-1 ..... c 15 N70-38601 *
US-PATENT-CLASS-188-1 ..... c 15 N70-40354 *
US-PATENT-CLASS-188-1 ..... c 14 N71-17626 *
US-PATENT-CLASS-188-1 ..... c 15 N71-22877 *
US-PATENT-CLASS-188-1 ..... c 14 N71-23092 *
US-PATENT-CLASS-188-1 ..... c 15 N71-26243 *
US-PATENT-CLASS-188-1 ..... c 15 N71-27146 *
US-PATENT-CLASS-188-1 ..... c 15 N71-27169 *
US-PATENT-CLASS-188-218-XL . c 37 N88-29181 *
US-PATENT-CLASS-188-24.11 .... c 37 N91-32514 *
US-PATENT-CLASS-188-251-A ... c 37 N88-29181 *
US-PATENT-CLASS-188-266 ..... c 15 N73-25513 *
US-PATENT-CLASS-188-268 ..... c 15 N72-20443 *
US-PATENT-CLASS-188-269 ..... c 44 N79-14527 *
US-PATENT-CLASS-188-291 ..... c 54 N77-21844 *
US-PATENT-CLASS-188-371 ..... c 37 N82-18601 *
US-PATENT-CLASS-188-373 ..... c 37 N88-23982 *
US-PATENT-CLASS-188-65.1 ..... c 15 N73-25512 *
US-PATENT-CLASS-188-65.5 ..... c 15 N71-27067 *
US-PATENT-CLASS-188-87 ..... c 12 N71-16894 *
US-PATENT-CLASS-188-88 ..... c 15 N71-26611 *
US-PATENT-CLASS-189-36 ..... c 15 N70-36947 *
US-PATENT-CLASS-19-205 ..... c 37 N76-18456 *
US-PATENT-CLASS-191-12.2-R .. c 33 N86-20669 *
US-PATENT-CLASS-192-43.1 ..... c 15 N71-17805 *
US-PATENT-CLASS-192-46 ..... c 37 N87-17037 *

US-PATENT-CLASS-192-67R ..... c 37 N87-17037 *
US-PATENT-CLASS-194-82.26 .... c 37 N90-21390 *
US-PATENT-CLASS-194-82.29 .... c 37 N90-21390 *
US-PATENT-CLASS-194-902 ..... c 37 N89-13785 *
US-PATENT-CLASS-195-1.8 ..... c 51 N77-25769 *
US-PATENT-CLASS-195-1.8 ..... c 51 N79-10694 *
US-PATENT-CLASS-195-1.8 ..... c 52 N79-14749 *
US-PATENT-CLASS-195-103.5K . c 51 N77-22794 *
US-PATENT-CLASS-195-103.5K . c 52 N79-14750 *
US-PATENT-CLASS-195-103.5L .. c 52 N79-14750 *
US-PATENT-CLASS-195-103.5R . c 06 N72-25149 *
US-PATENT-CLASS-195-103.5R . c 25 N75-12086 *
US-PATENT-CLASS-195-103.5R . c 35 N75-27330 *
US-PATENT-CLASS-195-103.5R . c 35 N75-33368 *
US-PATENT-CLASS-195-103.5R . c 51 N76-29891 *
US-PATENT-CLASS-195-103.5R . c 51 N77-22794 *
US-PATENT-CLASS-195-103.5R . c 25 N79-22235 *
US-PATENT-CLASS-195-120 ..... c 51 N75-13502 *
US-PATENT-CLASS-195-120 ..... c 35 N75-27330 *
US-PATENT-CLASS-195-127 ..... c 15 N72-21465 *
US-PATENT-CLASS-195-127 ..... c 11 N72-25284 *
US-PATENT-CLASS-195-127 ..... c 14 N72-25413 *
US-PATENT-CLASS-195-127 ..... c 15 N73-20514 *
US-PATENT-CLASS-195-127 ..... c 05 N73-32011 *
US-PATENT-CLASS-195-127 ..... c 35 N75-12272 *
US-PATENT-CLASS-195-127 ..... c 51 N75-13502 *
US-PATENT-CLASS-195-127 ..... c 35 N75-27330 *
US-PATENT-CLASS-195-127 ..... c 25 N79-22235 *
US-PATENT-CLASS-195-127 ..... c 25 N79-24073 *
US-PATENT-CLASS-195-141 ..... c 35 N75-27330 *
US-PATENT-CLASS-195-28N ..... c 06 N72-25149 *
US-PATENT-CLASS-195-66R ..... c 06 N73-27086 *
US-PATENT-CLASS-195-68 ..... c 04 N69-27487 * #
US-PATENT-CLASS-195-99 ..... c 06 N71-17705 *
US-PATENT-CLASS-197-188 ..... c 37 N77-19457 *
US-PATENT-CLASS-197-190 ..... c 37 N77-19457 *
US-PATENT-CLASS-198-847 ..... c 37 N80-32717 *
US-PATENT-CLASS-198-848 ..... c 37 N80-32717 *
US-PATENT-CLASS-1 ..... c 14 N71-27005 *
US-PATENT-CLASS-2-115 ..... c 05 N72-25119 *
US-PATENT-CLASS-2-14 ..... c 05 N71-23096 *
US-PATENT-CLASS-2-161R ..... c 54 N84-23113 *
US-PATENT-CLASS-2-161R ..... c 54 N84-28484 *
US-PATENT-CLASS-2-161 ..... c 54 N78-17677 *
US-PATENT-CLASS-2-164 ..... c 54 N84-28484 *
US-PATENT-CLASS-2-167 ..... c 54 N84-23113 *
US-PATENT-CLASS-2-167 ..... c 54 N84-28484 *
US-PATENT-CLASS-2-2.1A ..... c 05 N72-22092 *
US-PATENT-CLASS-2-2.1A ..... c 05 N73-25125 *
US-PATENT-CLASS-2-2.1A ..... c 05 N73-32012 *
US-PATENT-CLASS-2-2.1A ..... c 54 N74-32546 *
US-PATENT-CLASS-2-2.1A ..... c 54 N77-32721 *
US-PATENT-CLASS-2-2.1A ..... c 54 N78-17675 *
US-PATENT-CLASS-2-2.1A ..... c 54 N78-31735 *
US-PATENT-CLASS-2-2.1A ..... c 54 N78-31736 *
US-PATENT-CLASS-2-2.1A ..... c 54 N79-24651 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-28618 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-28619 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-28620 *
US-PATENT-CLASS-2-2.1A ..... c 54 N86-29507 * #
US-PATENT-CLASS-2-2.1A ..... c 18 N90-16860 *
US-PATENT-CLASS-2-2.1R ..... c 54 N86-28618 *
US-PATENT-CLASS-2-2.1R ..... c 54 N86-28619 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-11194 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-11195 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-12335 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-12344 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-23161 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-24623 *
US-PATENT-CLASS-2-2.1 ..... c 05 N71-24730 *
US-PATENT-CLASS-2-2.1 ..... c 05 N72-20096 *
US-PATENT-CLASS-2-2.1 ..... c 05 N72-20098 *
US-PATENT-CLASS-2-2.1 ..... c 05 N72-25119 *
US-PATENT-CLASS-2-2.1 ..... c 05 N73-26071 *
US-PATENT-CLASS-2-2.1 ..... c 34 N78-17337 *
US-PATENT-CLASS-2-2.1 ..... c 54 N78-17678 *
US-PATENT-CLASS-2-2.1 ..... c 54 N78-18761 *
US-PATENT-CLASS-2-201 ..... c 54 N89-29953 *
US-PATENT-CLASS-2-275 ..... c 18 N71-26285 *
US-PATENT-CLASS-2-6 ..... c 05 N71-26333 *
US-PATENT-CLASS-2-6 ..... c 54 N78-17680 *
US-PATENT-CLASS-2-81 ..... c 18 N71-26285 *
US-PATENT-CLASS-2-81 ..... c 05 N73-32012 *
US-PATENT-CLASS-2-82 ..... c 54 N74-32546 *
US-PATENT-CLASS-200-114 ..... c 33 N79-33393 *
US-PATENT-CLASS-200-129 ..... c 33 N75-27249 *
US-PATENT-CLASS-200-152 ..... c 09 N71-19610 *
US-PATENT-CLASS-200-153S ..... c 33 N80-18285 *
US-PATENT-CLASS-200-157 ..... c 08 N86-27288 *
US-PATENT-CLASS-200-19 ..... c 09 N70-39915 *
US-PATENT-CLASS-200-304 ..... c 33 N80-18285 *
US-PATENT-CLASS-200-39 ..... c 03 N70-38713 *
US-PATENT-CLASS-200-46 ..... c 74 N79-12890 *
US-PATENT-CLASS-200-61.05 .... c 25 N86-27431 *
US-PATENT-CLASS-200-61.42 .... c 09 N71-12518 *
US-PATENT-CLASS-200-61.45 .... c 14 N70-41812 *
US-PATENT-CLASS-200-61 ..... c 74 N79-12890 *
US-PATENT-CLASS-200-64 ..... c 15 N72-17455 *
US-PATENT-CLASS-200-6 ..... c 10 N71-15909 *
US-PATENT-CLASS-200-6 ..... c 09 N71-16089 *
US-PATENT-CLASS-200-81.9M ... c 09 N72-20199 *
US-PATENT-CLASS-200-81R ..... c 09 N72-22204 *
US-PATENT-CLASS-200-82C ..... c 09 N72-22204 *
US-PATENT-CLASS-200-82 ..... c 10 N71-23663 *
US-PATENT-CLASS-200-83N ..... c 35 N75-15931 *
US-PATENT-CLASS-200-83 ..... c 33 N79-33392 *
US-PATENT-CLASS-201-10 ..... c 27 N81-17261 *
US-PATENT-CLASS-201-17 ..... c 44 N78-31527 *
US-PATENT-CLASS-201-17 ..... c 25 N81-33246 *
US-PATENT-CLASS-201-17 ..... c 25 N82-29371 *
US-PATENT-CLASS-201-17 ..... c 25 N83-31743 *
US-PATENT-CLASS-201-17 ..... c 25 N85-35253 *
US-PATENT-CLASS-201-25 ..... c 27 N81-17261 *
US-PATENT-CLASS-201-8 ..... c 27 N81-17261 *
US-PATENT-CLASS-202-118 ..... c 31 N81-15154 *
US-PATENT-CLASS-202-182 ..... c 05 N71-11207 *
US-PATENT-CLASS-202-234 ..... c 15 N71-23086 *
US-PATENT-CLASS-203-12 ..... c 25 N82-28368 *
US-PATENT-CLASS-203-90 ..... c 25 N88-23846 *
US-PATENT-CLASS-203-91 ..... c 25 N88-23846 *
US-PATENT-CLASS-203-98 ..... c 25 N88-23846 *
US-PATENT-CLASS-204-DIG.11 . c 25 N77-32255 *
US-PATENT-CLASS-204-DIG.3 .... c 25 N84-12262 *
US-PATENT-CLASS-204-DIG.3 .... c 44 N84-23019 *
US-PATENT-CLASS-204-1T ..... c 25 N79-22235 *
US-PATENT-CLASS-204-1T ..... c 51 N81-28698 *
US-PATENT-CLASS-204-1T ..... c 25 N82-12166 *
US-PATENT-CLASS-204-1T ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-1T ..... c 35 N85-29212 *
US-PATENT-CLASS-204-1T ..... c 76 N85-30923 *
US-PATENT-CLASS-204-129.55 .. c 31 N83-19947 *
US-PATENT-CLASS-204-129.75 .. c 31 N83-19947 *
US-PATENT-CLASS-204-129 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-129 ..... c 25 N84-12262 *
US-PATENT-CLASS-204-129 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-130 ..... c 15 N72-21466 *
US-PATENT-CLASS-204-157.1H . c 25 N74-30502 *
US-PATENT-CLASS-204-157.1H . c 37 N76-18458 *
US-PATENT-CLASS-204-157.1R . c 25 N77-32255 *
US-PATENT-CLASS-204-157.1R . c 44 N77-32580 *
US-PATENT-CLASS-204-157.1R . c 44 N79-11470 *
US-PATENT-CLASS-204-157.18AG c 15 N72-25452 *
US-PATENT-CLASS-204-157.22 .. c 25 N88-24732 *
US-PATENT-CLASS-204-157.51 .. c 25 N90-20154 *
US-PATENT-CLASS-204-158R .... c 25 N77-32255 *
US-PATENT-CLASS-204-159.11 .. c 27 N80-32516 *
US-PATENT-CLASS-204-159.14 .. c 27 N80-32516 *
US-PATENT-CLASS-204-159.15 .. c 27 N80-26446 *
US-PATENT-CLASS-204-159.19 .. c 27 N80-26446 *
US-PATENT-CLASS-204-162R .... c 25 N77-32255 *
US-PATENT-CLASS-204-164 ..... c 26 N78-32229 *
US-PATENT-CLASS-204-168 ..... c 24 N71-25555 *
US-PATENT-CLASS-204-16 ..... c 24 N77-19171 *
US-PATENT-CLASS-204-171 ..... c 27 N80-23452 *
US-PATENT-CLASS-204-175 ..... c 26 N78-32229 *
US-PATENT-CLASS-204-177 ..... c 25 N75-12087 *
US-PATENT-CLASS-204-180.1 .... c 25 N88-23845 *
US-PATENT-CLASS-204-180G .... c 25 N78-14104 *
US-PATENT-CLASS-204-180G .... c 25 N79-14169 *
US-PATENT-CLASS-204-180G .... c 37 N80-14397 *
US-PATENT-CLASS-204-180P .... c 54 N78-14784 *
US-PATENT-CLASS-204-180R .... c 25 N74-26948 *
US-PATENT-CLASS-204-180R .... c 34 N74-27744 *
US-PATENT-CLASS-204-180R .... c 51 N80-16715 *
US-PATENT-CLASS-204-180S .... c 25 N79-10163 *
US-PATENT-CLASS-204-180S .... c 25 N79-14169 *
US-PATENT-CLASS-204-192.15 .. c 26 N87-25455 *
US-PATENT-CLASS-204-192.15 .. c 76 N88-24543 *
US-PATENT-CLASS-204-192.23 .. c 26 N87-25455 *
US-PATENT-CLASS-204-192.24 .. c 76 N88-24543 *
US-PATENT-CLASS-204-192.31 .. c 26 N88-14179 *
US-PATENT-CLASS-204-192.32 .. c 25 N91-31258 *
US-PATENT-CLASS-204-192-C ... c 27 N86-19458 *
US-PATENT-CLASS-204-192-D ... c 27 N86-19458 *
US-PATENT-CLASS-204-192-R ... c 27 N86-19458 *
US-PATENT-CLASS-204-192C .... c 76 N79-14906 *
US-PATENT-CLASS-204-192C .... c 26 N82-29415 *
US-PATENT-CLASS-204-192C .... c 26 N82-30371 *
US-PATENT-CLASS-204-192C .... c 24 N84-22695 *
US-PATENT-CLASS-204-192C .... c 31 N85-20153 *
US-PATENT-CLASS-204-192C .... c 24 N85-21267 *
US-PATENT-CLASS-204-192C .... c 76 N85-33826 *
US-PATENT-CLASS-204-192C .... c 27 N86-32569 *
US-PATENT-CLASS-204-192C .... c 31 N86-32587 *
US-PATENT-CLASS-204-192D .... c 27 N86-32569 *
US-PATENT-CLASS-204-192D .... c 31 N86-32587 *
US-PATENT-CLASS-204-192EC .. c 27 N82-28440 *
US-PATENT-CLASS-204-192EC .. c 27 N82-33521 *
US-PATENT-CLASS-204-192EC .. c 33 N84-22884 *
US-PATENT-CLASS-204-192E ..... c 37 N81-19455 *
US-PATENT-CLASS-204-192E ..... c 27 N82-28440 *
US-PATENT-CLASS-204-192E ..... c 27 N82-33521 *
US-PATENT-CLASS-204-192E ..... c 24 N83-10117 *
US-PATENT-CLASS-204-192E ..... c 52 N84-23095 *
US-PATENT-CLASS-204-192N .... c 24 N85-21267 *
US-PATENT-CLASS-204-192N .... c 26 N85-29005 *
US-PATENT-CLASS-204-192P .... c 76 N85-33826 *
US-PATENT-CLASS-204-192R .... c 24 N84-22695 *
US-PATENT-CLASS-204-192R .... c 31 N85-20153 *
US-PATENT-CLASS-204-192R .... c 24 N85-21267 *
US-PATENT-CLASS-204-192SP .. c 24 N84-22695 *
US-PATENT-CLASS-204-192SP .. c 31 N85-20153 *
US-PATENT-CLASS-204-192 ..... c 15 N73-12487 *
US-PATENT-CLASS-204-192 ..... c 17 N73-24569 *
US-PATENT-CLASS-204-192 ..... c 27 N74-13270 *
US-PATENT-CLASS-204-192 ..... c 20 N74-31269 *
US-PATENT-CLASS-204-192 ..... c 37 N75-19684 *
US-PATENT-CLASS-204-192 ..... c 44 N77-14580 *
US-PATENT-CLASS-204-195B .... c 25 N79-24073 *
US-PATENT-CLASS-204-195B .... c 51 N80-27067 *
US-PATENT-CLASS-204-195B .... c 51 N81-28698 *
US-PATENT-CLASS-204-195B .... c 35 N82-28604 *
US-PATENT-CLASS-204-195R .... c 33 N76-19339 *
US-PATENT-CLASS-204-195S .... c 25 N82-12166 *
US-PATENT-CLASS-204-195W ... c 35 N78-25391 *
US-PATENT-CLASS-204-195 ..... c 14 N71-17575 *
US-PATENT-CLASS-204-2.1 ..... c 44 N81-29524 *
US-PATENT-CLASS-204-20 ..... c 18 N71-16210 *
US-PATENT-CLASS-204-222 ..... c 31 N74-23065 *
US-PATENT-CLASS-204-224 ..... c 37 N80-14395 *
US-PATENT-CLASS-204-242 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-242 ..... c 25 N84-12262 *
US-PATENT-CLASS-204-252 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-263 ..... c 14 N71-28933 *
US-PATENT-CLASS-204-263 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-264 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-266 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-266 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-267 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-275 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-276 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-278 ..... c 25 N82-12166 *
US-PATENT-CLASS-204-278 ..... c 25 N84-12262 *
US-PATENT-CLASS-204-278 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-279 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-280R .... c 25 N83-13187 *
US-PATENT-CLASS-204-280 ..... c 44 N84-23019 *
US-PATENT-CLASS-204-286 ..... c 33 N75-27252 *
US-PATENT-CLASS-204-290F .... c 28 N81-24280 *
US-PATENT-CLASS-204-290F .... c 44 N82-29710 *
US-PATENT-CLASS-204-290R .... c 33 N75-27252 *
US-PATENT-CLASS-204-290R .... c 28 N81-24280 *
US-PATENT-CLASS-204-290R .... c 44 N82-29710 *
US-PATENT-CLASS-204-290R .... c 25 N84-12262 *
US-PATENT-CLASS-204-290 ..... c 44 N84-28205 *
US-PATENT-CLASS-204-291 ..... c 28 N81-24280 *
US-PATENT-CLASS-204-292 ..... c 25 N78-10225 *
US-PATENT-CLASS-204-298 ..... c 15 N70-34967 *
US-PATENT-CLASS-204-298 ..... c 09 N71-26701 *
US-PATENT-CLASS-204-298 ..... c 15 N72-32487 *
US-PATENT-CLASS-204-298 ..... c 37 N75-19684 *
US-PATENT-CLASS-204-298 ..... c 27 N86-32569 *
US-PATENT-CLASS-204-298 ..... c 31 N86-32587 *
US-PATENT-CLASS-204-298 ..... c 31 N87-21160 *
US-PATENT-CLASS-204-299-R ... c 25 N88-23845 *
US-PATENT-CLASS-204-299R .... c 25 N78-14104 *
US-PATENT-CLASS-204-299R .... c 25 N79-14169 *
US-PATENT-CLASS-204-299R .... c 37 N80-14397 *
US-PATENT-CLASS-204-299R .... c 51 N80-16715 *
US-PATENT-CLASS-204-299R .... c 25 N83-10126 *
US-PATENT-CLASS-204-299R .... c 25 N83-13187 *
US-PATENT-CLASS-204-299 ..... c 34 N74-27744 *
US-PATENT-CLASS-204-299 ..... c 25 N79-10163 *
US-PATENT-CLASS-204-301 ..... c 54 N78-14784 *
US-PATENT-CLASS-204-305 ..... c 03 N71-24718 *
US-PATENT-CLASS-204-30 ..... c 09 N71-28691 *
US-PATENT-CLASS-204-32A ..... c 33 N77-26385 *
US-PATENT-CLASS-204-32R ..... c 44 N76-14595 *
US-PATENT-CLASS-204-324 ..... c 33 N73-16918 *
US-PATENT-CLASS-204-325 ..... c 33 N73-16918 *
US-PATENT-CLASS-204-328 ..... c 33 N73-16918 *
US-PATENT-CLASS-204-32 ..... c 44 N79-11469 *
US-PATENT-CLASS-204-33 ..... c 17 N71-25903 *
US-PATENT-CLASS-204-33 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-33 ..... c 44 N79-11469 *
US-PATENT-CLASS-204-33 ..... c 44 N83-34449 *
US-PATENT-CLASS-204-35N ..... c 27 N83-29388 *
US-PATENT-CLASS-204-35N ..... c 44 N83-34449 *
US-PATENT-CLASS-204-37.6 ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-37R ..... c 44 N79-11469 *
US-PATENT-CLASS-204-37R ..... c 27 N83-29388 *
US-PATENT-CLASS-204-37 ..... c 33 N71-29151 *
US-PATENT-CLASS-204-38A ..... c 44 N76-14595 *
US-PATENT-CLASS-204-38B ..... c 44 N79-11469 *
US-PATENT-CLASS-204-38B ..... c 27 N82-33521 *
US-PATENT-CLASS-204-38 ..... c 17 N71-24830 *
US-PATENT-CLASS-204-40 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-40 ..... c 24 N77-19171 *

US-PATENT-CLASS-204-42 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-430 ..... c 35 N85-29212 *
US-PATENT-CLASS-204-49 ..... c 15 N72-25452 *
US-PATENT-CLASS-204-49 ..... c 44 N76-14595 *
US-PATENT-CLASS-204-56R ..... c 44 N83-10494 *
US-PATENT-CLASS-204-56R ..... c 27 N83-29388 *
US-PATENT-CLASS-204-56R ..... c 76 N84-35112 * #
US-PATENT-CLASS-204-59 ..... c 15 N72-21466 *
US-PATENT-CLASS-204-9 ..... c 20 N74-32919 *
US-PATENT-CLASS-204-9 ..... c 24 N77-19171 *
US-PATENT-CLASS-204/298 ..... c 27 N86-19458 *
US-PATENT-CLASS-2041-195B .. c 25 N79-22235 *
US-PATENT-CLASS-205-343 ..... c 35 N75-30502 *
US-PATENT-CLASS-206-0.7 ..... c 31 N89-29578 *
US-PATENT-CLASS-206-439 ..... c 52 N79-14749 *
US-PATENT-CLASS-206-447 ..... c 27 N84-14323 *
US-PATENT-CLASS-206-582 ..... c 27 N84-14323 *
US-PATENT-CLASS-208-10 ..... c 25 N79-11152 *
US-PATENT-CLASS-208-10 ..... c 23 N84-16255 *
US-PATENT-CLASS-208-10 ..... c 25 N84-22709 *
US-PATENT-CLASS-208-11 ..... c 25 N86-25428 *
US-PATENT-CLASS-208-241 ..... c 25 N82-23282 *
US-PATENT-CLASS-208-8LE ..... c 23 N84-16255 *
US-PATENT-CLASS-208-8LE ..... c 25 N84-22709 *
US-PATENT-CLASS-208-8 ..... c 25 N79-11152 *
US-PATENT-CLASS-209-10 ..... c 15 N71-20440 *
US-PATENT-CLASS-209-127R .... c 35 N76-22509 *
US-PATENT-CLASS-209-250 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-300 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-305 ..... c 37 N76-18456 *
US-PATENT-CLASS-209-349 ..... c 15 N72-22483 *
US-PATENT-CLASS-209-422 ..... c 71 N85-30765 *
US-PATENT-CLASS-209-638 ..... c 71 N85-30765 *
US-PATENT-CLASS-21-207 ..... c 17 N71-16393 *
US-PATENT-CLASS-210-DIG.23 . c 52 N79-14749 *
US-PATENT-CLASS-210-DIG.27 . c 27 N77-31308 *
US-PATENT-CLASS-210-103 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-104 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-108 ..... c 34 N79-24285 *
US-PATENT-CLASS-210-110 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-137 ..... c 05 N72-27102 *
US-PATENT-CLASS-210-142 ..... c 34 N79-24285 *
US-PATENT-CLASS-210-151 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-186 ..... c 37 N80-10494 *
US-PATENT-CLASS-210-188 ..... c 12 N72-25292 *
US-PATENT-CLASS-210-192 ..... c 54 N78-14784 *
US-PATENT-CLASS-210-205 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-212 ..... c 03 N72-20033 *
US-PATENT-CLASS-210-222 ..... c 35 N78-12390 *
US-PATENT-CLASS-210-22 ..... c 52 N80-14687 *
US-PATENT-CLASS-210-23F ..... c 51 N79-10693 *
US-PATENT-CLASS-210-23H ..... c 27 N80-23452 *
US-PATENT-CLASS-210-234 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-24R ..... c 27 N81-14076 *
US-PATENT-CLASS-210-247 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-24 ..... c 27 N77-30236 *
US-PATENT-CLASS-210-24 ..... c 25 N81-19244 *
US-PATENT-CLASS-210-257.1 .... c 29 N90-21209 *
US-PATENT-CLASS-210-259 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-282 ..... c 37 N87-17035 *
US-PATENT-CLASS-210-28 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-304 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-314 ..... c 28 N70-41447 *
US-PATENT-CLASS-210-321.1 .... c 25 N82-21269 *
US-PATENT-CLASS-210-321.6 .... c 29 N90-21209 *
US-PATENT-CLASS-210-321B .... c 52 N80-14687 *
US-PATENT-CLASS-210-333 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-340 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-340 ..... c 37 N80-10494 *
US-PATENT-CLASS-210-340 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-355 ..... c 51 N91-14703 *
US-PATENT-CLASS-210-396 ..... c 51 N91-21701 *
US-PATENT-CLASS-210-40 ..... c 27 N77-31308 *
US-PATENT-CLASS-210-40 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-40 ..... c 45 N82-11634 *
US-PATENT-CLASS-210-411 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-414 ..... c 51 N91-14703 *
US-PATENT-CLASS-210-425 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-429 ..... c 37 N76-14463 *
US-PATENT-CLASS-210-433M .... c 51 N79-10693 *
US-PATENT-CLASS-210-445 ..... c 15 N72-11389 *
US-PATENT-CLASS-210-45 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-500.25 .. c 31 N88-29052 *
US-PATENT-CLASS-210-500.35 .. c 31 N88-29052 *
US-PATENT-CLASS-210-500M .... c 27 N80-23452 *
US-PATENT-CLASS-210-500M .... c 25 N81-17187 *
US-PATENT-CLASS-210-500 ..... c 25 N75-12087 *
US-PATENT-CLASS-210-50 ..... c 45 N79-12584 *
US-PATENT-CLASS-210-512.1 .... c 35 N90-22024 *
US-PATENT-CLASS-210-512 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-54 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-57 ..... c 45 N80-14579 *
US-PATENT-CLASS-210-602 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-605 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-60 ..... c 45 N79-12584 *
US-PATENT-CLASS-210-615 ..... c 45 N91-14662 *
US-PATENT-CLASS-210-617 ..... c 45 N84-12654 *
US-PATENT-CLASS-210-63R ..... c 25 N78-10225 *
US-PATENT-CLASS-210-63R ..... c 45 N79-12584 *
US-PATENT-CLASS-210-63Z ..... c 45 N80-14579 *
US-PATENT-CLASS-210-639 ..... c 31 N88-29052 *
US-PATENT-CLASS-210-653 ..... c 31 N88-29052 *
US-PATENT-CLASS-210-66 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-67 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-70 ..... c 85 N79-17747 *
US-PATENT-CLASS-210-71 ..... c 25 N78-10225 *
US-PATENT-CLASS-210-73R ..... c 85 N79-17747 *
US-PATENT-CLASS-210-748 ..... c 71 N83-35781 *
US-PATENT-CLASS-210-748 ..... c 35 N84-17555 *
US-PATENT-CLASS-210-748 ..... c 54 N91-31803 * #
US-PATENT-CLASS-210-82 ..... c 34 N75-33342 *
US-PATENT-CLASS-210-94 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-95 ..... c 29 N90-21209 *
US-PATENT-CLASS-210-96M ..... c 54 N78-14784 *
US-PATENT-CLASS-210-96M ..... c 51 N79-10693 *
US-PATENT-CLASS-210-97 ..... c 35 N90-22024 *
US-PATENT-CLASS-211-126 ..... c 35 N86-20751 *
US-PATENT-CLASS-211-74 ..... c 35 N86-20751 *
US-PATENT-CLASS-212-11 ..... c 32 N71-17609 *
US-PATENT-CLASS-212-134 ..... c 15 N72-11388 *
US-PATENT-CLASS-212-225 ..... c 18 N89-12621 *
US-PATENT-CLASS-212-230 ..... c 37 N86-20789 *
US-PATENT-CLASS-212-257 ..... c 18 N89-12621 *
US-PATENT-CLASS-212-267 ..... c 31 N81-27324 *
US-PATENT-CLASS-213-81 ..... c 37 N77-23483 *
US-PATENT-CLASS-214-ICM ..... c 37 N76-15460 *
US-PATENT-CLASS-214-1BC ..... c 54 N77-32721 *
US-PATENT-CLASS-214-1B ..... c 54 N75-27758 *
US-PATENT-CLASS-214-1CM ..... c 15 N72-28495 *
US-PATENT-CLASS-214-1CM ..... c 54 N75-12616 *
US-PATENT-CLASS-214-1CM ..... c 18 N75-27041 *
US-PATENT-CLASS-214-1CM ..... c 54 N75-27758 *
US-PATENT-CLASS-214-1CM ..... c 37 N77-23483 *
US-PATENT-CLASS-214-1CM ..... c 54 N77-32721 *
US-PATENT-CLASS-214-1CM ..... c 54 N78-17676 *
US-PATENT-CLASS-214-1R ..... c 37 N76-15457 *
US-PATENT-CLASS-214-16.1CB . c 37 N77-22480 *
US-PATENT-CLASS-214-1 ..... c 32 N70-41367 *
US-PATENT-CLASS-214-90R ..... c 03 N72-25021 *
US-PATENT-CLASS-215-247 ..... c 33 N76-19339 *
US-PATENT-CLASS-219-10.41 .... c 33 N82-26571 *
US-PATENT-CLASS-219-10.43 .... c 31 N85-29083 *
US-PATENT-CLASS-219-10.49R . c 33 N81-19389 *
US-PATENT-CLASS-219-10.49 .... c 11 N71-15925 *
US-PATENT-CLASS-219-10.49 .... c 31 N85-29083 *
US-PATENT-CLASS-219-10.53 .... c 33 N82-26571 *
US-PATENT-CLASS-219-10.53 .... c 31 N85-29083 *
US-PATENT-CLASS-219-10.67 .... c 33 N81-19389 *
US-PATENT-CLASS-219-10.77 .... c 31 N85-29083 *
US-PATENT-CLASS-219-101 ..... c 15 N73-14468 *
US-PATENT-CLASS-219-101 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-107 ..... c 15 N73-28515 *
US-PATENT-CLASS-219-107 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-109 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-117 ..... c 15 N73-32358 *
US-PATENT-CLASS-219-118 ..... c 37 N76-27568 *
US-PATENT-CLASS-219-118 ..... c 37 N77-11397 *
US-PATENT-CLASS-219-119 ..... c 15 N73-14468 *
US-PATENT-CLASS-219-121.28 .. c 35 N90-20351 *
US-PATENT-CLASS-219-121.47 .. c 75 N91-25875 *
US-PATENT-CLASS-219-121.48 .. c 75 N91-25875 *
US-PATENT-CLASS-219-121.52 .. c 75 N91-25875 *
US-PATENT-CLASS-219-121.54 .. c 37 N88-30131 *
US-PATENT-CLASS-219-121.56 .. c 37 N88-30131 *
US-PATENT-CLASS-219-121.57 .. c 37 N88-30131 *
US-PATENT-CLASS-219-121.68 .. c 31 N91-14508 *
US-PATENT-CLASS-219-121.72 .. c 37 N91-32508 *
US-PATENT-CLASS-219-121LE .. c 26 N86-32551 *
US-PATENT-CLASS-219-121LN .. c 44 N82-26777 *
US-PATENT-CLASS-219-121LY .. c 26 N86-32551 *
US-PATENT-CLASS-219-121P .... c 15 N72-32487 *
US-PATENT-CLASS-219-121 ..... c 15 N69-21471 * #
US-PATENT-CLASS-219-121 ..... c 33 N70-34540 *
US-PATENT-CLASS-219-121 ..... c 15 N71-19486 *
US-PATENT-CLASS-219-121 ..... c 16 N71-20400 *
US-PATENT-CLASS-219-121 ..... c 15 N71-27135 *
US-PATENT-CLASS-219-124.02 .. c 37 N88-30131 *
US-PATENT-CLASS-219-124.2-2 .. c 37 N79-10421 *
US-PATENT-CLASS-219-124.32 .. c 37 N79-10421 *
US-PATENT-CLASS-219-124.34 .. c 37 N86-21850 *
US-PATENT-CLASS-219-124.34 .. c 74 N87-17493 *
US-PATENT-CLASS-219-124.34 .. c 74 N87-25843 *
US-PATENT-CLASS-219-124.34 .. c 37 N88-14362 *
US-PATENT-CLASS-219-125.1 .... c 37 N79-10421 *
US-PATENT-CLASS-219-125 ..... c 15 N71-23815 *
US-PATENT-CLASS-219-125 ..... c 37 N75-27376 *
US-PATENT-CLASS-219-130.01 .. c 74 N87-17493 *
US-PATENT-CLASS-219-130.01 .. c 74 N87-25843 *
US-PATENT-CLASS-219-130.01 .. c 37 N88-14362 *
US-PATENT-CLASS-219-130.4 .... c 37 N88-30131 *
US-PATENT-CLASS-219-130 ..... c 15 N71-23798 *
US-PATENT-CLASS-219-131 ..... c 15 N71-15871 *
US-PATENT-CLASS-219-136 ..... c 37 N88-14362 *
US-PATENT-CLASS-219-136 ..... c 31 N90-23586 *
US-PATENT-CLASS-219-136 ..... c 31 N90-26168 *
US-PATENT-CLASS-219-137.42 .. c 37 N88-23980 *
US-PATENT-CLASS-219-137 ..... c 15 N70-34814 *
US-PATENT-CLASS-219-137 ..... c 37 N75-19683 *
US-PATENT-CLASS-219-158 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-160 ..... c 37 N80-23655 *
US-PATENT-CLASS-219-161 ..... c 37 N80-23655 *
US-PATENT-CLASS-219-19 ..... c 33 N70-34812 *
US-PATENT-CLASS-219-201 ..... c 52 N80-16725 *
US-PATENT-CLASS-219-201 ..... c 37 N85-29286 *
US-PATENT-CLASS-219-203 ..... c 11 N73-12265 *
US-PATENT-CLASS-219-203 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-209 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-210 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-216 ..... c 35 N74-15831 *
US-PATENT-CLASS-219-219 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-221 ..... c 15 N72-11392 *
US-PATENT-CLASS-219-221 ..... c 37 N85-29286 *
US-PATENT-CLASS-219-229 ..... c 15 N71-27214 *
US-PATENT-CLASS-219-234 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-234 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-243 ..... c 15 N72-11392 *
US-PATENT-CLASS-219-273 ..... c 15 N72-32487 *
US-PATENT-CLASS-219-275 ..... c 15 N71-20395 *
US-PATENT-CLASS-219-275 ..... c 20 N87-16875 *
US-PATENT-CLASS-219-285 ..... c 37 N85-29286 *
US-PATENT-CLASS-219-299 ..... c 51 N79-10694 *
US-PATENT-CLASS-219-300 ..... c 37 N77-13418 *
US-PATENT-CLASS-219-302 ..... c 51 N79-10694 *
US-PATENT-CLASS-219-304 ..... c 37 N77-13418 *
US-PATENT-CLASS-219-343 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-347 ..... c 15 N69-27871 * #
US-PATENT-CLASS-219-347 ..... c 33 N70-34545 *
US-PATENT-CLASS-219-348 ..... c 15 N73-27405 *
US-PATENT-CLASS-219-34 ..... c 09 N70-33312 *
US-PATENT-CLASS-219-354 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-364 ..... c 33 N71-16278 *
US-PATENT-CLASS-219-378 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-383 ..... c 09 N88-28939 *
US-PATENT-CLASS-219-388 ..... c 35 N74-15831 *
US-PATENT-CLASS-219-390 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-390 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-390 ..... c 14 N91-27175 *
US-PATENT-CLASS-219-395 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-396 ..... c 35 N86-20750 *
US-PATENT-CLASS-219-410 ..... c 12 N79-26075 *
US-PATENT-CLASS-219-411 ..... c 17 N69-25147 * #
US-PATENT-CLASS-219-411 ..... c 27 N83-36220 *
US-PATENT-CLASS-219-413 ..... c 14 N71-28958 *
US-PATENT-CLASS-219-477 ..... c 33 N74-14935 *
US-PATENT-CLASS-219-497 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-499 ..... c 14 N73-26430 *
US-PATENT-CLASS-219-501 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-505 ..... c 14 N71-27058 *
US-PATENT-CLASS-219-505 ..... c 77 N75-20140 *
US-PATENT-CLASS-219-50 ..... c 14 N73-26430 *
US-PATENT-CLASS-219-510 ..... c 35 N81-26431 *
US-PATENT-CLASS-219-522 ..... c 11 N73-12265 *
US-PATENT-CLASS-219-522 ..... c 52 N80-16725 *
US-PATENT-CLASS-219-522 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-530 ..... c 33 N71-25353 *
US-PATENT-CLASS-219-539 ..... c 33 N74-14935 *
US-PATENT-CLASS-219-541 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-543 ..... c 27 N84-33589 *
US-PATENT-CLASS-219-545 ..... c 33 N82-26571 *
US-PATENT-CLASS-219-62 ..... c 15 N73-28515 *
US-PATENT-CLASS-219-69.11 .... c 27 N91-25296 *
US-PATENT-CLASS-219-69.12 .... c 37 N91-32508 *
US-PATENT-CLASS-219-72 ..... c 15 N71-14932 *
US-PATENT-CLASS-219-72 ..... c 37 N90-19602 *
US-PATENT-CLASS-219-74 ..... c 74 N87-25843 *
US-PATENT-CLASS-219-74 ..... c 37 N90-19602 *
US-PATENT-CLASS-219-75 ..... c 37 N88-23980 *
US-PATENT-CLASS-219-75 ..... c 31 N90-23586 *
US-PATENT-CLASS-219-75 ..... c 31 N90-26168 *
US-PATENT-CLASS-219-75 ..... c 75 N91-25875 *
US-PATENT-CLASS-219-76.14 .... c 24 N85-30027 *
US-PATENT-CLASS-219-76.16 .... c 75 N91-25875 *
US-PATENT-CLASS-219-78 ..... c 37 N74-11300 *
US-PATENT-CLASS-219-85CA .... c 35 N80-20560 *
US-PATENT-CLASS-219-85CM ... c 35 N80-20560 *
US-PATENT-CLASS-219-85R ..... c 35 N80-20560 *
US-PATENT-CLASS-219-85 ..... c 15 N72-22491 *
US-PATENT-CLASS-219-85 ..... c 15 N72-23497 *
US-PATENT-CLASS-219-91 ..... c 15 N71-18613 *
US-PATENT-CLASS-219-91 ..... c 15 N73-32358 *
US-PATENT-CLASS-219-92 ..... c 37 N76-27568 *
US-PATENT-CLASS-219-92 ..... c 37 N77-11397 *
US-PATENT-CLASS-22-200 ..... c 15 N71-15966 *
US-PATENT-CLASS-22-203 ..... c 17 N70-38198 *
US-PATENT-CLASS-220-14 ..... c 15 N69-39935 * #
US-PATENT-CLASS-220-15 ..... c 31 N71-15664 *
US-PATENT-CLASS-220-15 ..... c 34 N75-12222 *
US-PATENT-CLASS-220-1 ..... c 31 N71-17680 *

US-PATENT-CLASS-220-2.2 ..... c 24 N79-25143 *
US-PATENT-CLASS-220-266 ..... c 37 N79-22474 *
US-PATENT-CLASS-220-306 ..... c 27 N84-27886 *
US-PATENT-CLASS-220-335 ..... c 45 N83-25217 *
US-PATENT-CLASS-220-378 ..... c 37 N82-24490 *
US-PATENT-CLASS-220-423 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-429 ..... c 44 N80-20808 *
US-PATENT-CLASS-220-445 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-46 ..... c 15 N71-27068 *
US-PATENT-CLASS-220-5A ..... c 31 N89-29578 *
US-PATENT-CLASS-220-5R ..... c 15 N72-22486 *
US-PATENT-CLASS-220-55 ..... c 15 N69-27502 * #
US-PATENT-CLASS-220-63 ..... c 11 N70-38182 *
US-PATENT-CLASS-220-67 ..... c 15 N71-10577 *
US-PATENT-CLASS-220-82R ..... c 31 N81-19343 *
US-PATENT-CLASS-220-89A ..... c 31 N81-19343 *
US-PATENT-CLASS-220-89 ..... c 11 N71-15960 *
US-PATENT-CLASS-220-89 ..... c 11 N71-17600 *
US-PATENT-CLASS-220-901 ..... c 37 N80-18393 *
US-PATENT-CLASS-220-901 ..... c 31 N89-29578 *
US-PATENT-CLASS-220-9 ..... c 23 N71-22881 *
US-PATENT-CLASS-220-9 ..... c 18 N71-23658 *
US-PATENT-CLASS-220-9 ..... c 15 N71-23816 *
US-PATENT-CLASS-220-9 ..... c 33 N71-25351 *
US-PATENT-CLASS-221-265 ..... c 51 N74-15778 *
US-PATENT-CLASS-222-131 ..... c 31 N79-21225 *
US-PATENT-CLASS-222-135 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-137 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-145 ..... c 37 N76-19436 *
US-PATENT-CLASS-222-187 ..... c 31 N90-23587 *
US-PATENT-CLASS-222-193 ..... c 37 N74-13178 *
US-PATENT-CLASS-222-309 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-309 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-309 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-324 ..... c 54 N74-17853 *
US-PATENT-CLASS-222-340 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-340 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-387 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-389 ..... c 15 N70-38996 *
US-PATENT-CLASS-222-414 ..... c 14 N73-27378 *
US-PATENT-CLASS-222-43 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-45 ..... c 14 N70-40233 *
US-PATENT-CLASS-222-48 ..... c 35 N85-21595 *
US-PATENT-CLASS-222-49 ..... c 14 N71-27005 *
US-PATENT-CLASS-222-514 ..... c 54 N74-12779 *
US-PATENT-CLASS-222-61 ..... c 27 N71-29155 *
US-PATENT-CLASS-222-61 ..... c 37 N77-28487 *
US-PATENT-CLASS-222-71 ..... c 15 N72-21465 *
US-PATENT-CLASS-222-95 ..... c 37 N77-28487 *
US-PATENT-CLASS-224-25A ..... c 05 N72-23085 *
US-PATENT-CLASS-224-25 ..... c 05 N71-12351 *
US-PATENT-CLASS-224-444 ..... c 54 N74-17853 *
US-PATENT-CLASS-225-103 ..... c 37 N82-32730 *
US-PATENT-CLASS-225-1 ..... c 15 N71-17628 *
US-PATENT-CLASS-225-2 ..... c 26 N71-14354 *
US-PATENT-CLASS-226-190 ..... c 08 N71-19420 *
US-PATENT-CLASS-226-58 ..... c 14 N71-28935 *
US-PATENT-CLASS-227-27 ..... c 37 N86-25790 *
US-PATENT-CLASS-227-28 ..... c 37 N86-25790 *
US-PATENT-CLASS-228-103 ..... c 35 N83-35338 *
US-PATENT-CLASS-228-107 ..... c 37 N79-13364 *
US-PATENT-CLASS-228-107 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-107 ..... c 31 N91-31476 *
US-PATENT-CLASS-228-109 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-116 ..... c 37 N81-19455 *
US-PATENT-CLASS-228-118 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-118 ..... c 24 N81-26179 *
US-PATENT-CLASS-228-119 ..... c 37 N86-32736 * #
US-PATENT-CLASS-228-124 ..... c 26 N77-29260 *
US-PATENT-CLASS-228-124 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-13 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-15.1 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-157 ..... c 24 N82-24296 *
US-PATENT-CLASS-228-157 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-165 ..... c 35 N84-22930 *
US-PATENT-CLASS-228-170 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-173 ..... c 18 N79-11108 *
US-PATENT-CLASS-228-174 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-181 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-190 ..... c 24 N75-28135 *
US-PATENT-CLASS-228-190 ..... c 26 N77-28265 *
US-PATENT-CLASS-228-190 ..... c 24 N81-17170 *
US-PATENT-CLASS-228-190 ..... c 24 N81-26179 *
US-PATENT-CLASS-228-193 ..... c 24 N75-28135 *
US-PATENT-CLASS-228-193 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-193 ..... c 35 N83-35338 *
US-PATENT-CLASS-228-194 ..... c 26 N77-28265 *
US-PATENT-CLASS-228-1 ..... c 37 N75-25185 *
US-PATENT-CLASS-228-2.5 ..... c 37 N79-13364 *
US-PATENT-CLASS-228-2.5 ..... c 37 N88-14359 *
US-PATENT-CLASS-228-2.5 ..... c 31 N91-31476 *
US-PATENT-CLASS-228-205 ..... c 37 N81-19455 *
US-PATENT-CLASS-228-206 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-208 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-209 ..... c 37 N87-21334 *
US-PATENT-CLASS-228-212 ..... c 37 N80-23655 *
US-PATENT-CLASS-228-212 ..... c 24 N84-11214 *
US-PATENT-CLASS-228-214 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-222 ..... c 37 N80-23655 *
US-PATENT-CLASS-228-232 ..... c 26 N77-28265 *
US-PATENT-CLASS-228-238 ..... c 37 N76-18455 *
US-PATENT-CLASS-228-263.18 .. c 35 N83-35338 *
US-PATENT-CLASS-228-263 ..... c 26 N77-29260 *
US-PATENT-CLASS-228-44.1R ... c 37 N80-23655 *
US-PATENT-CLASS-228-5.1 ..... c 44 N79-24431 *
US-PATENT-CLASS-228-50 ..... c 15 N70-39924 *
US-PATENT-CLASS-228-50 ..... c 15 N70-40204 *
US-PATENT-CLASS-228-53 ..... c 15 N71-27214 *
US-PATENT-CLASS-228-57 ..... c 15 N72-22491 *
US-PATENT-CLASS-228-6 ..... c 44 N79-24431 *
US-PATENT-CLASS-228-7 ..... c 15 N71-15607 *
US-PATENT-CLASS-228-8 ..... c 15 N71-23050 *
US-PATENT-CLASS-228-8 ..... c 37 N79-10421 *
US-PATENT-CLASS-228-9 ..... c 15 N71-20393 *
US-PATENT-CLASS-229-DIG.11 . c 32 N73-13921 *
US-PATENT-CLASS-23-109 ..... c 04 N72-33072 *
US-PATENT-CLASS-23-201 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-208 ..... c 15 N69-21922 * #
US-PATENT-CLASS-23-208 ..... c 26 N70-36805 *
US-PATENT-CLASS-23-209.1 ..... c 15 N72-20446 *
US-PATENT-CLASS-23-230B ..... c 25 N75-14844 *
US-PATENT-CLASS-23-230B ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230B ..... c 25 N79-14169 *
US-PATENT-CLASS-23-230B ..... c 51 N80-27067 *
US-PATENT-CLASS-23-230L ..... c 35 N74-32879 *
US-PATENT-CLASS-23-230M ..... c 25 N76-18245 *
US-PATENT-CLASS-23-230M ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230PC .... c 25 N78-15210 *
US-PATENT-CLASS-23-230PC .... c 25 N82-12166 *
US-PATENT-CLASS-23-230R ..... c 06 N72-17094 *
US-PATENT-CLASS-23-230R ..... c 17 N73-12547 *
US-PATENT-CLASS-23-230R ..... c 17 N73-27446 *
US-PATENT-CLASS-23-230R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-230R ..... c 45 N76-31714 *
US-PATENT-CLASS-23-230R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-230 ..... c 06 N71-23527 *
US-PATENT-CLASS-23-230 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-231 ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232C ..... c 06 N72-17094 *
US-PATENT-CLASS-23-232C ..... c 25 N76-18245 *
US-PATENT-CLASS-23-232C ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232E ..... c 06 N73-16106 *
US-PATENT-CLASS-23-232E ..... c 45 N76-31714 *
US-PATENT-CLASS-23-232E ..... c 25 N78-15210 *
US-PATENT-CLASS-23-232E ..... c 25 N82-12166 *
US-PATENT-CLASS-23-232R ..... c 06 N73-16106 *
US-PATENT-CLASS-23-232R ..... c 45 N76-31714 *
US-PATENT-CLASS-23-232R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-232R ..... c 25 N78-15210 *
US-PATENT-CLASS-23-252R ..... c 25 N74-12813 *
US-PATENT-CLASS-23-252R ..... c 25 N79-10162 *
US-PATENT-CLASS-23-252R ..... c 25 N79-28253 *
US-PATENT-CLASS-23-253A ..... c 51 N77-27677 *
US-PATENT-CLASS-23-253A ..... c 54 N78-14784 *
US-PATENT-CLASS-23-253PC .... c 06 N72-17094 *
US-PATENT-CLASS-23-253PC .... c 37 N74-18123 *
US-PATENT-CLASS-23-253R ..... c 15 N72-21465 *
US-PATENT-CLASS-23-253R ..... c 25 N75-14844 *
US-PATENT-CLASS-23-253R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-253 ..... c 23 N71-16355 *
US-PATENT-CLASS-23-253 ..... c 06 N71-26754 *
US-PATENT-CLASS-23-253 ..... c 06 N72-17095 *
US-PATENT-CLASS-23-254EF .... c 35 N76-18403 *
US-PATENT-CLASS-23-254E ..... c 06 N73-16106 *
US-PATENT-CLASS-23-254E ..... c 33 N75-26245 *
US-PATENT-CLASS-23-254E ..... c 35 N75-29380 *
US-PATENT-CLASS-23-254E ..... c 45 N76-21742 *
US-PATENT-CLASS-23-254R ..... c 06 N73-16106 *
US-PATENT-CLASS-23-254R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-254R ..... c 23 N77-17161 *
US-PATENT-CLASS-23-254 ..... c 14 N71-20442 *
US-PATENT-CLASS-23-255E ..... c 35 N75-29380 *
US-PATENT-CLASS-23-255R ..... c 25 N76-18245 *
US-PATENT-CLASS-23-259 ..... c 15 N71-27372 *
US-PATENT-CLASS-23-259 ..... c 15 N72-21465 *
US-PATENT-CLASS-23-259 ..... c 37 N74-18123 *
US-PATENT-CLASS-23-259 ..... c 51 N77-27677 *
US-PATENT-CLASS-23-277C ..... c 25 N74-33378 *
US-PATENT-CLASS-23-277R ..... c 44 N77-22607 *
US-PATENT-CLASS-23-277 ..... c 26 N70-40015 *
US-PATENT-CLASS-23-281 ..... c 28 N72-18766 *
US-PATENT-CLASS-23-281 ..... c 25 N74-12813 *
US-PATENT-CLASS-23-281 ..... c 44 N76-18642 *
US-PATENT-CLASS-23-281 ..... c 44 N76-29700 *
US-PATENT-CLASS-23-281 ..... c 44 N77-10636 *
US-PATENT-CLASS-23-281 ..... c 44 N77-22607 *
US-PATENT-CLASS-23-284 ..... c 35 N74-15127 *
US-PATENT-CLASS-23-288F ..... c 25 N74-12813 *
US-PATENT-CLASS-23-288J ..... c 25 N74-12813 *
US-PATENT-CLASS-23-288R ..... c 28 N80-10374 *
US-PATENT-CLASS-23-288 ..... c 28 N72-18766 *
US-PATENT-CLASS-23-292 ..... c 51 N77-27677 *
US-PATENT-CLASS-23-293R ..... c 28 N81-15119 *
US-PATENT-CLASS-23-295R ..... c 76 N85-29800 *
US-PATENT-CLASS-23-300 ..... c 28 N80-23471 *
US-PATENT-CLASS-23-302A ..... c 28 N80-23471 *
US-PATENT-CLASS-23-302R ..... c 28 N80-23471 *
US-PATENT-CLASS-23-302T ..... c 28 N80-23471 *
US-PATENT-CLASS-23-313R ..... c 71 N85-22104 *
US-PATENT-CLASS-23-55 ..... c 06 N72-17093 *
US-PATENT-CLASS-23-88 ..... c 06 N72-17093 *
US-PATENT-CLASS-23-927 ..... c 51 N80-16714 *
US-PATENT-CLASS-23-97 ..... c 06 N72-17093 *
US-PATENT-CLASS-230-162 ..... c 33 N71-17610 *
US-PATENT-CLASS-230-221 ..... c 11 N72-22245 *
US-PATENT-CLASS-230-54 ..... c 11 N72-22245 *
US-PATENT-CLASS-233-DIG.1 .... c 34 N75-26282 *
US-PATENT-CLASS-233-11 ..... c 15 N71-16079 *
US-PATENT-CLASS-233-20RP .... c 34 N75-26282 *
US-PATENT-CLASS-233-25 ..... c 34 N75-26282 *
US-PATENT-CLASS-233-46 ..... c 34 N75-26282 *
US-PATENT-CLASS-233-6 ..... c 34 N75-26282 *
US-PATENT-CLASS-235.150.27 .. c 04 N74-13420 *
US-PATENT-CLASS-235-10.2 ..... c 08 N73-25206 *
US-PATENT-CLASS-235-150.1 .... c 08 N71-29033 *
US-PATENT-CLASS-235-150.1 .... c 08 N72-31226 *
US-PATENT-CLASS-235-150.1 .... c 32 N77-10392 *
US-PATENT-CLASS-235-150.22 .. c 02 N71-13421 *
US-PATENT-CLASS-235-150.22 .. c 04 N74-13420 *
US-PATENT-CLASS-235-150.25 .. c 21 N71-21688 *
US-PATENT-CLASS-235-150.25 .. c 35 N77-20399 *
US-PATENT-CLASS-235-150.26 .. c 04 N74-13420 *
US-PATENT-CLASS-235-150.27 .. c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 .... c 08 N71-29033 *
US-PATENT-CLASS-235-150.2 .... c 35 N77-20399 *
US-PATENT-CLASS-235-150.3 .... c 33 N74-10223 *
US-PATENT-CLASS-235-150.52 .. c 08 N72-22165 *
US-PATENT-CLASS-235-150.53 .. c 08 N72-22165 *
US-PATENT-CLASS-235-150.53 .. c 07 N73-13149 *
US-PATENT-CLASS-235-150.53 .. c 33 N75-26243 *
US-PATENT-CLASS-235-151.13 .. c 25 N76-18245 *
US-PATENT-CLASS-235-151.1 .... c 08 N71-29033 *
US-PATENT-CLASS-235-151.1 .... c 08 N72-31226 *
US-PATENT-CLASS-235-151.27 .. c 08 N73-25206 *
US-PATENT-CLASS-235-151.31 .. c 10 N73-25240 *
US-PATENT-CLASS-235-151.34 .. c 35 N76-14431 *
US-PATENT-CLASS-235-151.3 .... c 52 N74-22771 *
US-PATENT-CLASS-235-151.3 .... c 38 N78-17395 *
US-PATENT-CLASS-235-151.3 .... c 38 N78-17396 *
US-PATENT-CLASS-235-151 ..... c 37 N74-21056 *
US-PATENT-CLASS-235-152IE ... c 08 N73-32081 *
US-PATENT-CLASS-235-152 ..... c 07 N71-24741 *
US-PATENT-CLASS-235-152 ..... c 08 N72-20176 *
US-PATENT-CLASS-235-152 ..... c 08 N72-22167 *
US-PATENT-CLASS-235-152 ..... c 08 N72-25210 *
US-PATENT-CLASS-235-152 ..... c 08 N73-12175 *
US-PATENT-CLASS-235-152 ..... c 09 N73-13209 *
US-PATENT-CLASS-235-152 ..... c 08 N73-26175 *
US-PATENT-CLASS-235-152 ..... c 60 N77-14751 *
US-PATENT-CLASS-235-153AE .. c 60 N76-21914 *
US-PATENT-CLASS-235-153AK .. c 62 N74-14920 *
US-PATENT-CLASS-235-153 ..... c 08 N71-24633 *
US-PATENT-CLASS-235-153 ..... c 08 N72-22166 *
US-PATENT-CLASS-235-154 ..... c 08 N70-34778 *
US-PATENT-CLASS-235-154 ..... c 10 N71-23662 *
US-PATENT-CLASS-235-154 ..... c 08 N72-18184 *
US-PATENT-CLASS-235-154 ..... c 08 N72-25206 *
US-PATENT-CLASS-235-155 ..... c 08 N71-24890 *
US-PATENT-CLASS-235-155 ..... c 08 N72-21197 *
US-PATENT-CLASS-235-155 ..... c 08 N73-12176 *
US-PATENT-CLASS-235-156 ..... c 08 N71-18693 *
US-PATENT-CLASS-235-156 ..... c 60 N75-13539 *
US-PATENT-CLASS-235-156 ..... c 32 N76-21366 *
US-PATENT-CLASS-235-156 ..... c 32 N77-10392 *
US-PATENT-CLASS-235-156 ..... c 38 N78-17395 *
US-PATENT-CLASS-235-156 ..... c 38 N78-17396 *
US-PATENT-CLASS-235-158 ..... c 08 N71-19437 *
US-PATENT-CLASS-235-164 ..... c 08 N71-33110 *
US-PATENT-CLASS-235-164 ..... c 08 N73-26175 *
US-PATENT-CLASS-235-164 ..... c 60 N74-20836 *
US-PATENT-CLASS-235-175 ..... c 08 N71-18602 *
US-PATENT-CLASS-235-175 ..... c 08 N71-33110 *
US-PATENT-CLASS-235-176 ..... c 08 N70-34787 *
US-PATENT-CLASS-235-181 ..... c 07 N71-21476 *
US-PATENT-CLASS-235-181 ..... c 07 N73-13149 *
US-PATENT-CLASS-235-181 ..... c 35 N75-21582 *
US-PATENT-CLASS-235-181 ..... c 33 N75-26243 *
US-PATENT-CLASS-235-181 ..... c 43 N77-10584 *
US-PATENT-CLASS-235-181 ..... c 38 N78-17395 *
US-PATENT-CLASS-235-183 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-184 ..... c 74 N76-18913 *
US-PATENT-CLASS-235-186 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-194 ..... c 09 N71-19480 *
US-PATENT-CLASS-235-194 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-194 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-197 ..... c 08 N72-22165 *
US-PATENT-CLASS-235-197 ..... c 09 N72-23173 *
US-PATENT-CLASS-235-197 ..... c 10 N73-20253 *

US-PATENT-CLASS-235-197 ..... c 10 N73-26230 *
US-PATENT-CLASS-235-197 ..... c 60 N75-13539 *
US-PATENT-CLASS-235-201 ..... c 10 N71-25899 *
US-PATENT-CLASS-235-61.6 ..... c 01 N71-13411 *
US-PATENT-CLASS-235-61.6 ..... c 15 N71-21179 *
US-PATENT-CLASS-235-61NV .... c 08 N72-11172 *
US-PATENT-CLASS-235-61NV .... c 35 N76-29552 *
US-PATENT-CLASS-235-70 ..... c 04 N78-17031 *
US-PATENT-CLASS-235-78M ..... c 35 N76-29552 *
US-PATENT-CLASS-235-88M ..... c 35 N76-29552 *
US-PATENT-CLASS-235-92CA .... c 33 N74-10223 *
US-PATENT-CLASS-235-92CA .... c 38 N77-17495 *
US-PATENT-CLASS-235-92CC .... c 08 N72-20176 *
US-PATENT-CLASS-235-92CT .... c 38 N77-17495 *
US-PATENT-CLASS-235-92CV .... c 08 N73-25206 *
US-PATENT-CLASS-235-92DE .... c 08 N72-20176 *
US-PATENT-CLASS-235-92DM ... c 08 N72-20176 *
US-PATENT-CLASS-235-92DM ... c 33 N74-10223 *
US-PATENT-CLASS-235-92DM ... c 33 N75-19519 *
US-PATENT-CLASS-235-92DN .... c 08 N73-25206 *
US-PATENT-CLASS-235-92DN .... c 38 N77-17495 *
US-PATENT-CLASS-235-92EA .... c 08 N73-25206 *
US-PATENT-CLASS-235-92EV .... c 08 N73-25206 *
US-PATENT-CLASS-235-92FQ .... c 08 N73-20217 *
US-PATENT-CLASS-235-92LG .... c 08 N72-20176 *
US-PATENT-CLASS-235-92LG .... c 33 N75-19519 *
US-PATENT-CLASS-235-92MT .... c 08 N72-31226 *
US-PATENT-CLASS-235-92MT .... c 32 N73-26910 *
US-PATENT-CLASS-235-92PC .... c 35 N82-11431 *
US-PATENT-CLASS-235-92PE .... c 37 N74-21056 *
US-PATENT-CLASS-235-92R ..... c 08 N72-20176 *
US-PATENT-CLASS-235-92R ..... c 08 N73-20217 *
US-PATENT-CLASS-235-92R ..... c 08 N73-25206 *
US-PATENT-CLASS-235-92R ..... c 33 N75-19519 *
US-PATENT-CLASS-235-92R ..... c 38 N77-17495 *
US-PATENT-CLASS-235-92SB .... c 37 N74-21056 *
US-PATENT-CLASS-235-92SH .... c 33 N76-14373 *
US-PATENT-CLASS-235-92T ..... c 03 N72-25020 *
US-PATENT-CLASS-235-92T ..... c 08 N73-20217 *
US-PATENT-CLASS-235-92T ..... c 33 N75-19519 *
US-PATENT-CLASS-235-92VA .... c 33 N75-19519 *
US-PATENT-CLASS-235-92 ..... c 08 N71-22897 *
US-PATENT-CLASS-235-92 ..... c 08 N71-24891 *
US-PATENT-CLASS-235-92 ..... c 10 N71-27137 *
US-PATENT-CLASS-235-92 ..... c 14 N71-27215 *
US-PATENT-CLASS-236-1F ..... c 35 N81-26431 *
US-PATENT-CLASS-236-13 ..... c 31 N80-32583 *
US-PATENT-CLASS-236-15-E ..... c 25 N88-29002 *
US-PATENT-CLASS-236-1 ..... c 33 N71-16357 *
US-PATENT-CLASS-236-44A ..... c 35 N91-21496 *
US-PATENT-CLASS-236-44C ..... c 31 N80-32583 *
US-PATENT-CLASS-236-49 ..... c 31 N74-27902 *
US-PATENT-CLASS-236-49 ..... c 31 N80-32583 *
US-PATENT-CLASS-236-68 ..... c 15 N72-12409 *
US-PATENT-CLASS-236-94 ..... c 35 N91-21496 *
US-PATENT-CLASS-237-1A ..... c 44 N76-14602 *
US-PATENT-CLASS-237-1A ..... c 44 N78-10554 *
US-PATENT-CLASS-237-1A ..... c 44 N78-15560 *
US-PATENT-CLASS-237-1A ..... c 44 N78-17460 *
US-PATENT-CLASS-237-1A ..... c 44 N78-31525 *
US-PATENT-CLASS-237-1A ..... c 44 N79-24433 *
US-PATENT-CLASS-237-60 ..... c 34 N76-17317 *
US-PATENT-CLASS-238-134 ..... c 85 N74-34672 *
US-PATENT-CLASS-238-1 ..... c 05 N71-28619 *
US-PATENT-CLASS-239-DIG.23 . c 37 N85-29283 *
US-PATENT-CLASS-239-102 ..... c 37 N80-10494 *
US-PATENT-CLASS-239-127.1 .... c 28 N71-23968 *
US-PATENT-CLASS-239-127.1 .... c 28 N73-32606 *
US-PATENT-CLASS-239-127.1 .... c 34 N79-13288 *
US-PATENT-CLASS-239-127.1 .... c 34 N79-13289 *
US-PATENT-CLASS-239-127.1 .... c 34 N80-24573 *
US-PATENT-CLASS-239-127.1 .... c 44 N81-24519 *
US-PATENT-CLASS-239-127.3 .... c 20 N76-14191 *
US-PATENT-CLASS-239-127.3 .... c 07 N80-32392 *
US-PATENT-CLASS-239-132.5 .... c 20 N87-14420 *
US-PATENT-CLASS-239-14.1 ..... c 09 N89-25242 *
US-PATENT-CLASS-239-145 ..... c 31 N90-23587 *
US-PATENT-CLASS-239-171 ..... c 37 N77-13418 *
US-PATENT-CLASS-239-2.1 ..... c 09 N89-25242 *
US-PATENT-CLASS-239-265.11 .. c 18 N71-21068 *
US-PATENT-CLASS-239-265.11 .. c 07 N74-33218 *
US-PATENT-CLASS-239-265.11 .. c 07 N76-18117 *
US-PATENT-CLASS-239-265.11 .. c 37 N90-23751 *
US-PATENT-CLASS-239-265.11 .. c 37 N91-27560 *
US-PATENT-CLASS-239-265.15 .. c 37 N79-22474 *
US-PATENT-CLASS-239-265.17 .. c 07 N74-27490 *
US-PATENT-CLASS-239-265.17 .. c 07 N83-33884 *
US-PATENT-CLASS-239-265.17 .. c 71 N84-14873 *
US-PATENT-CLASS-239-265.17 .. c 20 N89-25279 *
US-PATENT-CLASS-239-265.19 .. c 28 N71-21493 *
US-PATENT-CLASS-239-265.19 .. c 28 N72-11708 *
US-PATENT-CLASS-239-265.25 .. c 07 N78-27121 *
US-PATENT-CLASS-239-265.25 .. c 09 N78-31129 *
US-PATENT-CLASS-239-265.33 .. c 07 N78-27121 *
US-PATENT-CLASS-239-265.33 .. c 07 N80-32392 *
US-PATENT-CLASS-239-265.39 .. c 07 N79-14097 *
US-PATENT-CLASS-239-265.43 .. c 28 N71-16224 *
US-PATENT-CLASS-239-265.43 .. c 28 N72-11708 *
US-PATENT-CLASS-239-288 ..... c 37 N79-22474 *
US-PATENT-CLASS-239-288 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-302 ..... c 37 N80-10494 *
US-PATENT-CLASS-239-322 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-327 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-375 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-402.5 .... c 07 N85-35195 *
US-PATENT-CLASS-239-403 ..... c 20 N87-14420 *
US-PATENT-CLASS-239-416 ..... c 15 N69-23185 * #
US-PATENT-CLASS-239-416 ..... c 15 N71-17654 *
US-PATENT-CLASS-239-418 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-424 ..... c 15 N72-25455 *
US-PATENT-CLASS-239-425 ..... c 20 N87-14420 *
US-PATENT-CLASS-239-426 ..... c 34 N84-12406 *
US-PATENT-CLASS-239-426 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-433 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-433 ..... c 37 N87-24689 *
US-PATENT-CLASS-239-434 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-499 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-543 ..... c 28 N72-23809 *
US-PATENT-CLASS-239-543 ..... c 31 N90-20254 *
US-PATENT-CLASS-239-545 ..... c 34 N87-21255 *
US-PATENT-CLASS-239-562 ..... c 43 N81-26509 *
US-PATENT-CLASS-239-568 ..... c 37 N84-16561 *
US-PATENT-CLASS-239-589 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-590 ..... c 37 N85-29283 *
US-PATENT-CLASS-239-591 ..... c 43 N81-26509 *
US-PATENT-CLASS-239-596 ..... c 37 N87-24689 *
US-PATENT-CLASS-239-597 ..... c 31 N91-15424 *
US-PATENT-CLASS-239-600 ..... c 37 N87-24689 *
US-PATENT-CLASS-239-601 ..... c 34 N82-13376 *
US-PATENT-CLASS-239-601 ..... c 31 N91-15424 *
US-PATENT-CLASS-239-690 ..... c 28 N82-18401 *
US-PATENT-CLASS-24-126 ..... c 15 N71-22994 *
US-PATENT-CLASS-24-134R ..... c 15 N73-25512 *
US-PATENT-CLASS-24-205.17 .... c 15 N71-25975 *
US-PATENT-CLASS-24-211N ..... c 15 N72-11385 *
US-PATENT-CLASS-24-211 ..... c 15 N71-17653 *
US-PATENT-CLASS-24-214 ..... c 31 N83-31895 *
US-PATENT-CLASS-24-263 ..... c 15 N71-21076 *
US-PATENT-CLASS-24-263 ..... c 15 N71-26162 *
US-PATENT-CLASS-24-304 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-447 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-450 ..... c 27 N85-20125 *
US-PATENT-CLASS-24-560 ..... c 52 N84-28388 *
US-PATENT-CLASS-24-635 ..... c 37 N90-17154 *
US-PATENT-CLASS-24-68B ..... c 54 N89-29953 *
US-PATENT-CLASS-24-693 ..... c 27 N85-20125 *
US-PATENT-CLASS-240-1.2 ..... c 11 N70-33329 *
US-PATENT-CLASS-240-11.2 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-11.4 ..... c 09 N71-26787 *
US-PATENT-CLASS-240-41.35R . c 74 N77-21941 *
US-PATENT-CLASS-240-41B ..... c 36 N75-27364 *
US-PATENT-CLASS-240-41R ..... c 74 N77-21941 *
US-PATENT-CLASS-240-46.13 .... c 74 N77-21941 *
US-PATENT-CLASS-240-47 ..... c 34 N74-23066 *
US-PATENT-CLASS-240-51.11 .... c 09 N71-26787 *
US-PATENT-CLASS-241-95 ..... c 37 N84-16561 *
US-PATENT-CLASS-242-107 ..... c 33 N86-20669 *
US-PATENT-CLASS-242-128 ..... c 15 N82-24272 *
US-PATENT-CLASS-242-187 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-192 ..... c 14 N71-23698 *
US-PATENT-CLASS-242-193 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-204 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-210 ..... c 37 N77-14479 *
US-PATENT-CLASS-242-54-R ..... c 33 N86-20669 *
US-PATENT-CLASS-242-54 ..... c 15 N72-18477 *
US-PATENT-CLASS-242-55.19 .... c 14 N70-41647 *
US-PATENT-CLASS-242-55.19 .... c 07 N71-10609 *
US-PATENT-CLASS-242-57 ..... c 37 N77-14479 *
US-PATENT-CLASS-244.12.2 ..... c 05 N82-26277 *
US-PATENT-CLASS-244-ISS ..... c 03 N72-20031 *
US-PATENT-CLASS-244-1.55 ..... c 03 N73-20040 *
US-PATENT-CLASS-244-1-R ..... c 06 N87-22678 *
US-PATENT-CLASS-244-1A ..... c 33 N77-10429 *
US-PATENT-CLASS-244-1R ..... c 34 N79-31523 *
US-PATENT-CLASS-244-1R ..... c 35 N90-22769 *
US-PATENT-CLASS-244-1SA ..... c 21 N72-21624 *
US-PATENT-CLASS-244-1SA ..... c 21 N72-25595 *
US-PATENT-CLASS-244-1SA ..... c 03 N73-20039 *
US-PATENT-CLASS-244-1SA ..... c 15 N73-25513 *
US-PATENT-CLASS-244-1SA ..... c 21 N73-30640 *
US-PATENT-CLASS-244-1SA ..... c 19 N74-15089 *
US-PATENT-CLASS-244-1SA ..... c 35 N74-28097 *
US-PATENT-CLASS-244-1SB ..... c 15 N73-12486 *
US-PATENT-CLASS-244-1SC ..... c 31 N73-32750 *
US-PATENT-CLASS-244-1SC ..... c 34 N75-12222 *
US-PATENT-CLASS-244-1SD ..... c 31 N73-26876 *
US-PATENT-CLASS-244-1SD ..... c 37 N74-27903 *
US-PATENT-CLASS-244-1SD ..... c 15 N77-10112 *
US-PATENT-CLASS-244-1SS ..... c 11 N73-13257 *
US-PATENT-CLASS-244-1SS ..... c 03 N73-20039 *
US-PATENT-CLASS-244-1SS ..... c 14 N73-27378 *
US-PATENT-CLASS-244-1SS ..... c 31 N73-30829 *
US-PATENT-CLASS-244-1SS ..... c 31 N73-32750 *
US-PATENT-CLASS-244-1SS ..... c 33 N73-32818 *
US-PATENT-CLASS-244-1SS ..... c 18 N74-22136 *
US-PATENT-CLASS-244-1SS ..... c 18 N74-27397 *
US-PATENT-CLASS-244-1SS ..... c 73 N75-30876 *
US-PATENT-CLASS-244-100 ..... c 15 N70-34850 *
US-PATENT-CLASS-244-100 ..... c 31 N70-36654 *
US-PATENT-CLASS-244-100 ..... c 31 N70-36845 *
US-PATENT-CLASS-244-100 ..... c 02 N70-41589 *
US-PATENT-CLASS-244-103R .... c 37 N81-24443 *
US-PATENT-CLASS-244-103 ..... c 02 N70-36825 *
US-PATENT-CLASS-244-110B .... c 07 N82-26293 *
US-PATENT-CLASS-244-110C .... c 37 N82-18601 *
US-PATENT-CLASS-244-113 ..... c 02 N70-37939 *
US-PATENT-CLASS-244-113 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-113 ..... c 02 N77-10001 *
US-PATENT-CLASS-244-113 ..... c 37 N82-16408 *
US-PATENT-CLASS-244-113 ..... c 08 N85-35200 *
US-PATENT-CLASS-244-113 ..... c 02 N91-27139 *
US-PATENT-CLASS-244-114R .... c 04 N82-16059 *
US-PATENT-CLASS-244-114 ..... c 21 N72-22619 *
US-PATENT-CLASS-244-115 ..... c 18 N83-29303 *
US-PATENT-CLASS-244-117-A ... c 24 N88-18628 *
US-PATENT-CLASS-244-117A .... c 33 N73-25952 *
US-PATENT-CLASS-244-117A .... c 34 N76-17317 *
US-PATENT-CLASS-244-117A .... c 37 N76-19437 *
US-PATENT-CLASS-244-117A .... c 34 N77-18382 *
US-PATENT-CLASS-244-117A .... c 05 N81-26114 *
US-PATENT-CLASS-244-117A .... c 27 N84-27886 *
US-PATENT-CLASS-244-117 ..... c 31 N70-33242 *
US-PATENT-CLASS-244-117 ..... c 33 N72-17947 *
US-PATENT-CLASS-244-118.1 .... c 08 N82-32373 *
US-PATENT-CLASS-244-118.1 .... c 18 N85-29991 *
US-PATENT-CLASS-244-118.1 .... c 37 N85-34401 *
US-PATENT-CLASS-244-118.1 .... c 05 N87-14314 *
US-PATENT-CLASS-244-118.1 .... c 05 N91-27156 *
US-PATENT-CLASS-244-119 ..... c 02 N81-14968 *
US-PATENT-CLASS-244-119 ..... c 24 N82-24296 *
US-PATENT-CLASS-244-119 ..... c 24 N82-26384 *
US-PATENT-CLASS-244-119 ..... c 24 N84-11214 *
US-PATENT-CLASS-244-119 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-12.3 ..... c 05 N88-28914 *
US-PATENT-CLASS-244-12.4 ..... c 05 N88-28914 *
US-PATENT-CLASS-244-12.5 ..... c 08 N81-19130 *
US-PATENT-CLASS-244-120 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-120 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-121 ..... c 27 N79-12221 *
US-PATENT-CLASS-244-121 ..... c 24 N79-25142 *
US-PATENT-CLASS-244-121 ..... c 15 N79-26100 *
US-PATENT-CLASS-244-121 ..... c 27 N82-24339 *
US-PATENT-CLASS-244-121 ..... c 27 N82-29456 *
US-PATENT-CLASS-244-121 ..... c 37 N87-17036 *
US-PATENT-CLASS-244-122AD .. c 03 N91-15142 *
US-PATENT-CLASS-244-122 ..... c 05 N71-20718 *
US-PATENT-CLASS-244-123 ..... c 24 N77-28225 *
US-PATENT-CLASS-244-123 ..... c 24 N82-24296 *
US-PATENT-CLASS-244-123 ..... c 24 N82-26384 *
US-PATENT-CLASS-244-123 ..... c 24 N84-11214 *
US-PATENT-CLASS-244-127 ..... c 34 N74-23039 *
US-PATENT-CLASS-244-129.5 .... c 18 N90-19278 *
US-PATENT-CLASS-244-12 ..... c 02 N70-33332 *
US-PATENT-CLASS-244-130 ..... c 02 N77-10001 *
US-PATENT-CLASS-244-130 ..... c 02 N81-14968 *
US-PATENT-CLASS-244-130 ..... c 37 N81-24443 *
US-PATENT-CLASS-244-130 ..... c 02 N87-16793 *
US-PATENT-CLASS-244-130 ..... c 07 N87-16828 *
US-PATENT-CLASS-244-130 ..... c 02 N88-14071 *
US-PATENT-CLASS-244-130 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-130 ..... c 05 N90-20078 *
US-PATENT-CLASS-244-130 ..... c 05 N90-20079 *
US-PATENT-CLASS-244-130 ..... c 34 N91-14562 *
US-PATENT-CLASS-244-130 ..... c 05 N91-27156 *
US-PATENT-CLASS-244-132 ..... c 24 N82-26384 *
US-PATENT-CLASS-244-132 ..... c 24 N82-32417 *
US-PATENT-CLASS-244-133 ..... c 31 N90-19427 *
US-PATENT-CLASS-244-134-D ... c 33 N86-20671 *
US-PATENT-CLASS-244-134-D ... c 33 N87-28833 *
US-PATENT-CLASS-244-134-F ... c 35 N88-29149 *
US-PATENT-CLASS-244-135R .... c 34 N76-17317 *
US-PATENT-CLASS-244-135R .... c 20 N80-10278 *
US-PATENT-CLASS-244-135 ..... c 31 N70-42015 *
US-PATENT-CLASS-244-135 ..... c 15 N73-12486 *
US-PATENT-CLASS-244-135 ..... c 14 N73-27378 *
US-PATENT-CLASS-244-137.2 .... c 18 N91-14374 *
US-PATENT-CLASS-244-137.2 .... c 03 N91-15142 *
US-PATENT-CLASS-244-137.2 .... c 03 N91-31113 *
US-PATENT-CLASS-244-137.4 .... c 05 N90-20079 *
US-PATENT-CLASS-244-137.4 .... c 05 N91-27156 *
US-PATENT-CLASS-244-137-A ... c 05 N87-14314 *
US-PATENT-CLASS-244-137P .... c 31 N73-26876 *
US-PATENT-CLASS-244-137P .... c 37 N76-22540 *
US-PATENT-CLASS-244-137P .... c 01 N83-35992 *
US-PATENT-CLASS-244-137R .... c 08 N82-32373 *
US-PATENT-CLASS-244-138A .... c 35 N90-22769 *
US-PATENT-CLASS-244-138 ..... c 01 N69-39981 * #
US-PATENT-CLASS-244-138 ..... c 02 N70-41630 *

US-PATENT-CLASS-244-138 ..... c 31 N71-16085 *
US-PATENT-CLASS-244-138 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-138 ..... c 31 N71-28851 *
US-PATENT-CLASS-244-139 ..... c 31 N73-13898 *
US-PATENT-CLASS-244-139 ..... c 02 N76-16014 *
US-PATENT-CLASS-244-139 ..... c 05 N85-21147 *
US-PATENT-CLASS-244-139 ..... c 08 N85-35200 *
US-PATENT-CLASS-244-139 ..... c 02 N91-27139 *
US-PATENT-CLASS-244-13 ..... c 01 N71-23497 *
US-PATENT-CLASS-244-13 ..... c 02 N73-26005 *
US-PATENT-CLASS-244-13 ..... c 05 N75-25914 *
US-PATENT-CLASS-244-13 ..... c 05 N84-12154 *
US-PATENT-CLASS-244-140 ..... c 02 N70-38009 *
US-PATENT-CLASS-244-145 ..... c 02 N74-10034 *
US-PATENT-CLASS-244-147 ..... c 05 N85-21147 *
US-PATENT-CLASS-244-14 ..... c 14 N70-33322 *
US-PATENT-CLASS-244-14 ..... c 18 N91-21222 *
US-PATENT-CLASS-244-15.5 ..... c 31 N72-18859 *
US-PATENT-CLASS-244-150 ..... c 15 N71-24600 *
US-PATENT-CLASS-244-151R .... c 33 N74-22865 *
US-PATENT-CLASS-244-152 ..... c 02 N70-36804 *
US-PATENT-CLASS-244-155 ..... c 30 N73-12884 *
US-PATENT-CLASS-244-155 ..... c 31 N73-14854 *
US-PATENT-CLASS-244-158.R ... c 20 N86-26368 *
US-PATENT-CLASS-244-158-A ... c 37 N85-30335 *
US-PATENT-CLASS-244-158-A ... c 05 N86-19310 *
US-PATENT-CLASS-244-158-A ... c 24 N88-18628 *
US-PATENT-CLASS-244-158-R ... c 05 N86-19310 *
US-PATENT-CLASS-244-158-R ... c 18 N86-20469 *
US-PATENT-CLASS-244-158A .... c 27 N82-24339 *
US-PATENT-CLASS-244-158A .... c 27 N82-29456 *
US-PATENT-CLASS-244-158A .... c 24 N82-32417 *
US-PATENT-CLASS-244-158A .... c 24 N83-13172 *
US-PATENT-CLASS-244-158A .... c 16 N84-22601 *
US-PATENT-CLASS-244-158A .... c 27 N84-27886 *
US-PATENT-CLASS-244-158A .... c 24 N90-23480 *
US-PATENT-CLASS-244-158R .... c 31 N81-25258 *
US-PATENT-CLASS-244-158R .... c 16 N84-27784 *
US-PATENT-CLASS-244-158R .... c 18 N85-29991 *
US-PATENT-CLASS-244-158R .... c 37 N85-34401 *
US-PATENT-CLASS-244-158R .... c 37 N87-17036 *
US-PATENT-CLASS-244-158R .... c 18 N90-19278 *
US-PATENT-CLASS-244-158R .... c 16 N90-22584 *
US-PATENT-CLASS-244-158R .... c 18 N91-21222 *
US-PATENT-CLASS-244-158 ..... c 37 N76-22540 *
US-PATENT-CLASS-244-158 ..... c 27 N79-12221 *
US-PATENT-CLASS-244-159 ..... c 18 N79-11108 *
US-PATENT-CLASS-244-159 ..... c 07 N83-20944 *
US-PATENT-CLASS-244-159 ..... c 31 N83-31895 *
US-PATENT-CLASS-244-159 ..... c 18 N86-24729 *
US-PATENT-CLASS-244-159 ..... c 37 N86-25789 *
US-PATENT-CLASS-244-159 ..... c 18 N88-26398 *
US-PATENT-CLASS-244-159 ..... c 18 N89-25266 *
US-PATENT-CLASS-244-159 ..... c 18 N89-28553 *
US-PATENT-CLASS-244-159 ..... c 18 N90-16860 *
US-PATENT-CLASS-244-159 ..... c 18 N90-20126 *
US-PATENT-CLASS-244-159 ..... c 18 N91-27201 *
US-PATENT-CLASS-244-159 ..... c 54 N91-31803 * #
US-PATENT-CLASS-244-15 ..... c 05 N75-25914 *
US-PATENT-CLASS-244-15 ..... c 05 N88-23765 *
US-PATENT-CLASS-244-160 ..... c 27 N79-12221 *
US-PATENT-CLASS-244-160 ..... c 43 N81-17499 *
US-PATENT-CLASS-244-160 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-160 ..... c 27 N82-24339 *
US-PATENT-CLASS-244-160 ..... c 27 N82-29456 *
US-PATENT-CLASS-244-160 ..... c 16 N90-22584 *
US-PATENT-CLASS-244-161 ..... c 18 N76-14186 *
US-PATENT-CLASS-244-161 ..... c 37 N76-22540 *
US-PATENT-CLASS-244-161 ..... c 37 N77-23483 *
US-PATENT-CLASS-244-161 ..... c 15 N78-25119 *
US-PATENT-CLASS-244-161 ..... c 37 N80-14398 *
US-PATENT-CLASS-244-161 ..... c 37 N81-14320 *
US-PATENT-CLASS-244-161 ..... c 37 N81-27519 *
US-PATENT-CLASS-244-161 ..... c 18 N83-29303 *
US-PATENT-CLASS-244-161 ..... c 18 N84-22605 *
US-PATENT-CLASS-244-161 ..... c 16 N86-26352 *
US-PATENT-CLASS-244-161 ..... c 37 N87-25582 *
US-PATENT-CLASS-244-161 ..... c 18 N89-25266 *
US-PATENT-CLASS-244-161 ..... c 18 N89-28553 *
US-PATENT-CLASS-244-161 ..... c 18 N90-20126 *
US-PATENT-CLASS-244-161 ..... c 16 N90-22584 *
US-PATENT-CLASS-244-161 ..... c 18 N91-14374 *
US-PATENT-CLASS-244-162 ..... c 18 N75-19329 *
US-PATENT-CLASS-244-162 ..... c 18 N76-17185 *
US-PATENT-CLASS-244-162 ..... c 03 N91-15142 *
US-PATENT-CLASS-244-163 ..... c 37 N76-19437 *
US-PATENT-CLASS-244-163 ..... c 24 N79-25142 *
US-PATENT-CLASS-244-163 ..... c 34 N79-31523 *
US-PATENT-CLASS-244-163 ..... c 05 N81-26114 *
US-PATENT-CLASS-244-163 ..... c 37 N82-16408 *
US-PATENT-CLASS-244-163 ..... c 27 N82-29456 *
US-PATENT-CLASS-244-163 ..... c 35 N85-29214 *
US-PATENT-CLASS-244-163 ..... c 31 N91-15424 *
US-PATENT-CLASS-244-163 ..... c 54 N91-31803 * #
US-PATENT-CLASS-244-164 ..... c 35 N89-15379 *
US-PATENT-CLASS-244-164 ..... c 34 N91-25380 *

US-PATENT-CLASS-244-165 ..... c 15 N76-14158 *
US-PATENT-CLASS-244-165 ..... c 35 N77-20399 *
US-PATENT-CLASS-244-165 ..... c 35 N80-21719 *
US-PATENT-CLASS-244-165 ..... c 08 N88-23808 *
US-PATENT-CLASS-244-165 ..... c 35 N89-15379 *
US-PATENT-CLASS-244-165 ..... c 34 N91-25380 *
US-PATENT-CLASS-244-167 ..... c 15 N78-25119 *
US-PATENT-CLASS-244-168 ..... c 04 N82-23231 *
US-PATENT-CLASS-244-169 ..... c 15 N77-10113 *
US-PATENT-CLASS-244-169 ..... c 18 N83-28064 *
US-PATENT-CLASS-244-169 ..... c 20 N86-26368 *
US-PATENT-CLASS-244-16 ..... c 02 N70-41863 *
US-PATENT-CLASS-244-17.13 .... c 02 N73-19004 *
US-PATENT-CLASS-244-17.13 .... c 08 N79-23097 *
US-PATENT-CLASS-244-17.19 .... c 08 N88-23809 *
US-PATENT-CLASS-244-17.25 .... c 05 N81-19087 *
US-PATENT-CLASS-244-17.27 .... c 05 N87-14314 *
US-PATENT-CLASS-244-170 ..... c 35 N80-21719 *
US-PATENT-CLASS-244-170 ..... c 18 N83-28064 *
US-PATENT-CLASS-244-171 ..... c 15 N77-10113 *
US-PATENT-CLASS-244-171 ..... c 35 N77-20399 *
US-PATENT-CLASS-244-172 ..... c 18 N76-17185 *
US-PATENT-CLASS-244-172 ..... c 16 N84-27784 *
US-PATENT-CLASS-244-172 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-172 ..... c 05 N86-19310 *
US-PATENT-CLASS-244-172 ..... c 16 N90-22584 *
US-PATENT-CLASS-244-173 ..... c 44 N75-32581 *
US-PATENT-CLASS-244-173 ..... c 37 N81-15364 *
US-PATENT-CLASS-244-173 ..... c 07 N83-20944 *
US-PATENT-CLASS-244-173 ..... c 37 N86-25789 *
US-PATENT-CLASS-244-175 ..... c 04 N82-23231 *
US-PATENT-CLASS-244-181 ..... c 08 N81-24106 *
US-PATENT-CLASS-244-181 ..... c 08 N81-26152 *
US-PATENT-CLASS-244-181 ..... c 06 N86-27280 *
US-PATENT-CLASS-244-182 ..... c 08 N81-26152 *
US-PATENT-CLASS-244-190 ..... c 04 N82-23231 *
US-PATENT-CLASS-244-194 ..... c 60 N82-29013 *
US-PATENT-CLASS-244-195 ..... c 08 N79-23097 *
US-PATENT-CLASS-244-195 ..... c 08 N81-24106 *
US-PATENT-CLASS-244-199 ..... c 07 N85-35194 *
US-PATENT-CLASS-244-199 ..... c 02 N88-14071 *
US-PATENT-CLASS-244-199 ..... c 05 N91-14345 *
US-PATENT-CLASS-244-199 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-1 ..... c 31 N69-27499 * #
US-PATENT-CLASS-244-1 ..... c 03 N70-33343 *
US-PATENT-CLASS-244-1 ..... c 33 N70-33344 *
US-PATENT-CLASS-244-1 ..... c 03 N70-34157 *
US-PATENT-CLASS-244-1 ..... c 31 N70-34176 *
US-PATENT-CLASS-244-1 ..... c 21 N70-34295 *
US-PATENT-CLASS-244-1 ..... c 31 N70-34296 *
US-PATENT-CLASS-244-1 ..... c 21 N70-35395 *
US-PATENT-CLASS-244-1 ..... c 31 N70-36410 *
US-PATENT-CLASS-244-1 ..... c 33 N70-36617 *
US-PATENT-CLASS-244-1 ..... c 21 N70-36943 *
US-PATENT-CLASS-244-1 ..... c 31 N70-37924 *
US-PATENT-CLASS-244-1 ..... c 31 N70-37938 *
US-PATENT-CLASS-244-1 ..... c 31 N70-37986 *
US-PATENT-CLASS-244-1 ..... c 31 N70-38676 *
US-PATENT-CLASS-244-1 ..... c 30 N70-40016 *
US-PATENT-CLASS-244-1 ..... c 31 N70-41373 *
US-PATENT-CLASS-244-1 ..... c 31 N70-41588 *
US-PATENT-CLASS-244-1 ..... c 31 N70-41631 *
US-PATENT-CLASS-244-1 ..... c 31 N70-41855 *
US-PATENT-CLASS-244-1 ..... c 21 N70-41856 *
US-PATENT-CLASS-244-1 ..... c 31 N70-42075 *
US-PATENT-CLASS-244-1 ..... c 03 N71-11058 *
US-PATENT-CLASS-244-1 ..... c 33 N71-14035 *
US-PATENT-CLASS-244-1 ..... c 21 N71-14132 *
US-PATENT-CLASS-244-1 ..... c 21 N71-14159 *
US-PATENT-CLASS-244-1 ..... c 21 N71-15583 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15663 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15674 *
US-PATENT-CLASS-244-1 ..... c 31 N71-15676 *
US-PATENT-CLASS-244-1 ..... c 02 N71-16087 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16222 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16345 *
US-PATENT-CLASS-244-1 ..... c 31 N71-16346 *
US-PATENT-CLASS-244-1 ..... c 31 N71-17679 *
US-PATENT-CLASS-244-1 ..... c 15 N71-17693 *
US-PATENT-CLASS-244-1 ..... c 31 N71-17729 *
US-PATENT-CLASS-244-1 ..... c 15 N71-19214 *
US-PATENT-CLASS-244-1 ..... c 03 N71-20273 *
US-PATENT-CLASS-244-1 ..... c 31 N71-20396 *
US-PATENT-CLASS-244-1 ..... c 31 N71-21064 *
US-PATENT-CLASS-244-1 ..... c 14 N71-21082 *
US-PATENT-CLASS-244-1 ..... c 21 N71-21708 *
US-PATENT-CLASS-244-1 ..... c 31 N71-21881 *
US-PATENT-CLASS-244-1 ..... c 33 N71-22792 *
US-PATENT-CLASS-244-1 ..... c 31 N71-22968 *
US-PATENT-CLASS-244-1 ..... c 31 N71-22969 *
US-PATENT-CLASS-244-1 ..... c 31 N71-23009 *
US-PATENT-CLASS-244-1 ..... c 14 N71-23040 *
US-PATENT-CLASS-244-1 ..... c 31 N71-23912 *
US-PATENT-CLASS-244-1 ..... c 31 N71-24315 *
US-PATENT-CLASS-244-1 ..... c 15 N71-24600 *
US-PATENT-CLASS-244-1 ..... c 05 N71-24728 *

US-PATENT-CLASS-244-1 ..... c 33 N71-25353 *
US-PATENT-CLASS-244-1 ..... c 31 N71-25434 *
US-PATENT-CLASS-244-1 ..... c 31 N71-26537 *
US-PATENT-CLASS-244-1 ..... c 15 N71-26611 *
US-PATENT-CLASS-244-1 ..... c 28 N71-27095 *
US-PATENT-CLASS-244-1 ..... c 21 N71-27324 *
US-PATENT-CLASS-244-1 ..... c 33 N71-28903 *
US-PATENT-CLASS-244-1 ..... c 15 N71-28936 *
US-PATENT-CLASS-244-1 ..... c 31 N71-29050 *
US-PATENT-CLASS-244-1 ..... c 31 N71-33160 *
US-PATENT-CLASS-244-200 ..... c 02 N87-16793 *
US-PATENT-CLASS-244-200 ..... c 02 N88-14071 *
US-PATENT-CLASS-244-203 ..... c 34 N91-14562 *
US-PATENT-CLASS-244-204 ..... c 02 N87-16793 *
US-PATENT-CLASS-244-204 ..... c 34 N91-14562 *
US-PATENT-CLASS-244-207 ..... c 05 N88-28914 *
US-PATENT-CLASS-244-212 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-213 ..... c 08 N82-24205 *
US-PATENT-CLASS-244-214 ..... c 08 N85-19985 *
US-PATENT-CLASS-244-215 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-216 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-217 ..... c 37 N82-16408 *
US-PATENT-CLASS-244-218 ..... c 05 N78-32086 *
US-PATENT-CLASS-244-218 ..... c 08 N79-14108 *
US-PATENT-CLASS-244-219 ..... c 05 N84-22551 *
US-PATENT-CLASS-244-226 ..... c 08 N82-24205 *
US-PATENT-CLASS-244-23A ..... c 21 N72-25595 *
US-PATENT-CLASS-244-23C ..... c 05 N82-26277 *
US-PATENT-CLASS-244-23D ..... c 34 N76-18364 *
US-PATENT-CLASS-244-234 ..... c 08 N86-27288 *
US-PATENT-CLASS-244-23 ..... c 02 N71-11039 *
US-PATENT-CLASS-244-2 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-2 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-3.14 ..... c 31 N71-17691 *
US-PATENT-CLASS-244-3.16 ..... c 19 N74-15089 *
US-PATENT-CLASS-244-3.21 ..... c 30 N72-17873 *
US-PATENT-CLASS-244-3.21 ..... c 15 N76-14158 *
US-PATENT-CLASS-244-3.21 ..... c 15 N77-10113 *
US-PATENT-CLASS-244-3.21 ..... c 35 N77-20399 *
US-PATENT-CLASS-244-3.22 ..... c 31 N71-17629 *
US-PATENT-CLASS-244-3.22 ..... c 28 N72-22769 *
US-PATENT-CLASS-244-3.22 ..... c 20 N76-21275 *
US-PATENT-CLASS-244-31 ..... c 02 N71-11037 *
US-PATENT-CLASS-244-31 ..... c 31 N71-16081 *
US-PATENT-CLASS-244-31 ..... c 34 N74-23039 *
US-PATENT-CLASS-244-327 ..... c 08 N74-30421 *
US-PATENT-CLASS-244-32 ..... c 02 N73-13008 *
US-PATENT-CLASS-244-34A ..... c 05 N82-26277 *
US-PATENT-CLASS-244-35-R ..... c 02 N89-14224 *
US-PATENT-CLASS-244-35A ..... c 02 N84-11136 *
US-PATENT-CLASS-244-35R ..... c 02 N76-22154 *
US-PATENT-CLASS-244-35R ..... c 02 N84-11136 *
US-PATENT-CLASS-244-35R ..... c 02 N84-28732 *
US-PATENT-CLASS-244-35R ..... c 02 N87-16793 *
US-PATENT-CLASS-244-35 ..... c 01 N71-13410 *
US-PATENT-CLASS-244-40R ..... c 02 N76-22154 *
US-PATENT-CLASS-244-42CG .... c 33 N77-10429 *
US-PATENT-CLASS-244-42DA .... c 05 N75-25914 *
US-PATENT-CLASS-244-42 ..... c 02 N70-42016 *
US-PATENT-CLASS-244-42 ..... c 02 N71-26110 *
US-PATENT-CLASS-244-43 ..... c 02 N70-33255 *
US-PATENT-CLASS-244-43 ..... c 02 N71-11043 *
US-PATENT-CLASS-244-44 ..... c 02 N71-11038 *
US-PATENT-CLASS-244-45-A .... c 05 N88-28914 *
US-PATENT-CLASS-244-45A ..... c 05 N78-32086 *
US-PATENT-CLASS-244-45A ..... c 05 N90-23390 *
US-PATENT-CLASS-244-45R ..... c 05 N84-12154 *
US-PATENT-CLASS-244-45 ..... c 02 N71-12243 *
US-PATENT-CLASS-244-46 ..... c 02 N70-33266 *
US-PATENT-CLASS-244-46 ..... c 02 N70-33286 *
US-PATENT-CLASS-244-46 ..... c 02 N70-34178 *
US-PATENT-CLASS-244-46 ..... c 02 N70-34858 *
US-PATENT-CLASS-244-46 ..... c 31 N70-38010 *
US-PATENT-CLASS-244-46 ..... c 02 N70-38011 *
US-PATENT-CLASS-244-46 ..... c 02 N71-11041 * #
US-PATENT-CLASS-244-46 ..... c 02 N73-26005 *
US-PATENT-CLASS-244-46 ..... c 05 N76-29217 *
US-PATENT-CLASS-244-46 ..... c 05 N78-32086 *
US-PATENT-CLASS-244-46 ..... c 08 N79-14108 *
US-PATENT-CLASS-244-46 ..... c 05 N90-23390 *
US-PATENT-CLASS-244-48 ..... c 05 N79-12061 *
US-PATENT-CLASS-244-48 ..... c 05 N82-28279 *
US-PATENT-CLASS-244-49 ..... c 43 N81-17499 *
US-PATENT-CLASS-244-4 ..... c 05 N69-21380 * #
US-PATENT-CLASS-244-4 ..... c 05 N71-12336 *
US-PATENT-CLASS-244-4 ..... c 28 N71-27585 *
US-PATENT-CLASS-244-50 ..... c 02 N70-34160 *
US-PATENT-CLASS-244-51 ..... c 02 N70-34856 *
US-PATENT-CLASS-244-52 ..... c 08 N81-19130 *
US-PATENT-CLASS-244-53A ..... c 07 N78-18066 *
US-PATENT-CLASS-244-53B ..... c 02 N74-20646 *
US-PATENT-CLASS-244-53B ..... c 07 N75-24736 *
US-PATENT-CLASS-244-53B ..... c 07 N77-18154 *
US-PATENT-CLASS-244-53B ..... c 05 N79-24976 *
US-PATENT-CLASS-244-53B ..... c 85 N82-33288 *
US-PATENT-CLASS-244-53R ..... c 05 N84-12154 *

US-PATENT-CLASS-244-53 ..... c 28 N71-15563 *
US-PATENT-CLASS-244-54 ..... c 07 N78-18066 *
US-PATENT-CLASS-244-54 ..... c 07 N79-14096 *
US-PATENT-CLASS-244-54 ..... c 05 N90-20078 *
US-PATENT-CLASS-244-55 ..... c 02 N73-26005 *
US-PATENT-CLASS-244-55 ..... c 05 N75-25914 *
US-PATENT-CLASS-244-55 ..... c 05 N84-12154 *
US-PATENT-CLASS-244-55 ..... c 07 N85-35194 *
US-PATENT-CLASS-244-55 ..... c 07 N87-16828 *
US-PATENT-CLASS-244-55 ..... c 05 N88-28914 *
US-PATENT-CLASS-244-55 ..... c 05 N90-20078 *
US-PATENT-CLASS-244-57 ..... c 15 N71-26611 *
US-PATENT-CLASS-244-58 ..... c 05 N91-14345 *
US-PATENT-CLASS-244-63 ..... c 09 N77-19076 *
US-PATENT-CLASS-244-63 ..... c 14 N81-26161 *
US-PATENT-CLASS-244-63 ..... c 16 N84-27784 *
US-PATENT-CLASS-244-63 ..... c 18 N84-27787 *
US-PATENT-CLASS-244-75-R ..... c 08 N85-35200 *
US-PATENT-CLASS-244-75-R ..... c 05 N89-11738 *
US-PATENT-CLASS-244-75A ..... c 02 N73-26004 *
US-PATENT-CLASS-244-75R ..... c 05 N75-12930 *
US-PATENT-CLASS-244-75R ..... c 05 N85-21147 *
US-PATENT-CLASS-244-75R ..... c 05 N90-23390 *
US-PATENT-CLASS-244-75R ..... c 02 N91-27139 *
US-PATENT-CLASS-244-75R ..... c 05 N91-31140 *
US-PATENT-CLASS-244-76-R ..... c 08 N87-20999 *
US-PATENT-CLASS-244-76C ..... c 02 N73-26004 *
US-PATENT-CLASS-244-76 ..... c 21 N70-34539 *
US-PATENT-CLASS-244-76 ..... c 02 N71-13422 *
US-PATENT-CLASS-244-76 ..... c 02 N71-20570 *
US-PATENT-CLASS-244-77A ..... c 04 N74-13420 *
US-PATENT-CLASS-244-77B ..... c 04 N74-13420 *
US-PATENT-CLASS-244-77D ..... c 02 N73-19004 *
US-PATENT-CLASS-244-77F ..... c 02 N73-26004 *
US-PATENT-CLASS-244-77G ..... c 02 N73-26004 *
US-PATENT-CLASS-244-77 ..... c 32 N71-23971 *
US-PATENT-CLASS-244-78 ..... c 08 N82-24205 *
US-PATENT-CLASS-244-78 ..... c 05 N89-11738 *
US-PATENT-CLASS-244-79 ..... c 04 N76-26175 *
US-PATENT-CLASS-244-82 ..... c 05 N79-12061 *
US-PATENT-CLASS-244-83G ..... c 08 N79-23097 *
US-PATENT-CLASS-244-83R ..... c 05 N75-12930 *
US-PATENT-CLASS-244-83 ..... c 21 N70-33279 *
US-PATENT-CLASS-244-83 ..... c 15 N71-23255 *
US-PATENT-CLASS-244-83 ..... c 31 N71-33160 *
US-PATENT-CLASS-244-83 ..... c 08 N74-10942 *
US-PATENT-CLASS-244-87 ..... c 08 N81-19130 *
US-PATENT-CLASS-244-87 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-88 ..... c 05 N91-31140 *
US-PATENT-CLASS-244-90R ..... c 08 N74-30421 *
US-PATENT-CLASS-244-90R ..... c 05 N79-12061 *
US-PATENT-CLASS-244-90R ..... c 08 N79-14108 *
US-PATENT-CLASS-244-90R ..... c 08 N85-19985 *
US-PATENT-CLASS-244-90R ..... c 05 N90-23390 *
US-PATENT-CLASS-244-90 ..... c 02 N71-27086 *
US-PATENT-CLASS-244-91 ..... c 08 N74-30421 *
US-PATENT-CLASS-244-91 ..... c 05 N84-12154 *
US-PATENT-CLASS-244-91 ..... c 08 N88-23809 *
US-PATENT-CLASS-244-93 ..... c 05 N82-26277 *
US-PATENT-CLASS-244/161 ..... c 37 N87-22985 *
US-PATENT-CLASS-247-171 ..... c 35 N75-23910 *
US-PATENT-CLASS-248-DIG-1 ... c 18 N89-28554 *
US-PATENT-CLASS-248-119 ..... c 11 N70-35383 *
US-PATENT-CLASS-248-14 ..... c 15 N72-17454 *
US-PATENT-CLASS-248-16 ..... c 18 N74-27397 *
US-PATENT-CLASS-248-178 ..... c 15 N70-41310 *
US-PATENT-CLASS-248-178 ..... c 37 N78-27425 *
US-PATENT-CLASS-248-181 ..... c 37 N91-21543 *
US-PATENT-CLASS-248-183 ..... c 14 N71-26627 *
US-PATENT-CLASS-248-183 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-186 ..... c 37 N78-27425 *
US-PATENT-CLASS-248-188.4 .... c 15 N72-27484 *
US-PATENT-CLASS-248-188.9 .... c 31 N70-34159 *
US-PATENT-CLASS-248-18 ..... c 14 N69-27486 * #
US-PATENT-CLASS-248-18 ..... c 15 N72-11391 *
US-PATENT-CLASS-248-20 ..... c 15 N72-11391 *
US-PATENT-CLASS-248-228 ..... c 37 N84-16560 *
US-PATENT-CLASS-248-229 ..... c 37 N91-14617 *
US-PATENT-CLASS-248-22 ..... c 19 N76-22284 *
US-PATENT-CLASS-248-230 ..... c 37 N91-14617 *
US-PATENT-CLASS-248-23 ..... c 18 N74-27397 *
US-PATENT-CLASS-248-278 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-27 ..... c 15 N71-20813 *
US-PATENT-CLASS-248-316.4 .... c 37 N87-21333 *
US-PATENT-CLASS-248-317 ..... c 11 N69-27466 * #
US-PATENT-CLASS-248-346 ..... c 14 N70-39898 *
US-PATENT-CLASS-248-358R .... c 37 N75-18573 *
US-PATENT-CLASS-248-358R .... c 19 N76-22284 *
US-PATENT-CLASS-248-358 ..... c 15 N70-40156 *
US-PATENT-CLASS-248-358 ..... c 23 N71-15673 *
US-PATENT-CLASS-248-358 ..... c 15 N71-24694 *
US-PATENT-CLASS-248-36-3 ..... c 37 N78-17383 *
US-PATENT-CLASS-248-360 ..... c 15 N71-17649 *
US-PATENT-CLASS-248-361 ..... c 05 N71-28619 *
US-PATENT-CLASS-248-362 ..... c 37 N76-21554 *
US-PATENT-CLASS-248-363 ..... c 37 N76-21554 *
US-PATENT-CLASS-248-425 ..... c 37 N82-21587 *
US-PATENT-CLASS-248-487 ..... c 15 N72-11386 *
US-PATENT-CLASS-248-503 ..... c 18 N85-29991 *
US-PATENT-CLASS-248-548 ..... c 37 N88-23982 *
US-PATENT-CLASS-248-550 ..... c 37 N85-34401 *
US-PATENT-CLASS-248-550 ..... c 37 N87-21333 *
US-PATENT-CLASS-248-555 ..... c 18 N85-29991 *
US-PATENT-CLASS-248-593 ..... c 37 N91-21541 *
US-PATENT-CLASS-248-604 ..... c 37 N91-21541 *
US-PATENT-CLASS-248-608 ..... c 37 N88-23982 *
US-PATENT-CLASS-248-636 ..... c 35 N83-32026 *
US-PATENT-CLASS-248-638 ..... c 35 N83-32026 *
US-PATENT-CLASS-248-638 ..... c 05 N87-14314 *
US-PATENT-CLASS-248-650 ..... c 37 N91-21543 *
US-PATENT-CLASS-248-677 ..... c 37 N91-21543 *
US-PATENT-CLASS-248 ..... c 25 N79-28253 *
US-PATENT-CLASS-249-127 ..... c 31 N90-21216 *
US-PATENT-CLASS-249-144 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-145 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-145 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-184 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-59 ..... c 31 N75-13111 *
US-PATENT-CLASS-249-83 ..... c 31 N74-32920 *
US-PATENT-CLASS-249-95 ..... c 31 N74-32920 *
US-PATENT-CLASS-25-156 ..... c 15 N71-16076 *
US-PATENT-CLASS-250-105 ..... c 14 N70-40240 *
US-PATENT-CLASS-250-105 ..... c 14 N73-30389 *
US-PATENT-CLASS-250-199 ..... c 16 N69-27491 * #
US-PATENT-CLASS-250-199 ..... c 07 N71-12389 *
US-PATENT-CLASS-250-199 ..... c 16 N71-22895 *
US-PATENT-CLASS-250-199 ..... c 16 N71-25914 *
US-PATENT-CLASS-250-199 ..... c 16 N71-27183 *
US-PATENT-CLASS-250-199 ..... c 16 N73-16536 *
US-PATENT-CLASS-250-199 ..... c 07 N73-26119 *
US-PATENT-CLASS-250-199 ..... c 74 N76-18913 *
US-PATENT-CLASS-250-199 ..... c 74 N76-30053 *
US-PATENT-CLASS-250-199 ..... c 74 N77-26942 *
US-PATENT-CLASS-250-199 ..... c 32 N77-28346 *
US-PATENT-CLASS-250-199 ..... c 60 N77-32731 *
US-PATENT-CLASS-250-199 ..... c 74 N78-14889 *
US-PATENT-CLASS-250-201 ..... c 14 N70-40238 *
US-PATENT-CLASS-250-201 ..... c 35 N75-15014 *
US-PATENT-CLASS-250-201 ..... c 74 N78-17866 *
US-PATENT-CLASS-250-203R .... c 14 N72-27409 *
US-PATENT-CLASS-250-203R .... c 14 N73-25462 *
US-PATENT-CLASS-250-203R .... c 14 N73-28490 *
US-PATENT-CLASS-250-203R .... c 21 N73-30640 *
US-PATENT-CLASS-250-203R .... c 19 N74-15089 *
US-PATENT-CLASS-250-203R .... c 89 N74-30886 *
US-PATENT-CLASS-250-203R .... c 35 N77-20401 *
US-PATENT-CLASS-250-203R .... c 74 N77-22951 *
US-PATENT-CLASS-250-203R .... c 44 N81-24520 *
US-PATENT-CLASS-250-203R .... c 32 N83-18975 *
US-PATENT-CLASS-250-203R .... c 47 N83-32232 *
US-PATENT-CLASS-250-203R .... c 44 N88-14492 *
US-PATENT-CLASS-250-203X .... c 16 N72-13437 *
US-PATENT-CLASS-250-203 ..... c 14 N69-27432 * #
US-PATENT-CLASS-250-203 ..... c 14 N69-27485 * #
US-PATENT-CLASS-250-203 ..... c 07 N69-39736 * #
US-PATENT-CLASS-250-203 ..... c 14 N70-34158 *
US-PATENT-CLASS-250-203 ..... c 21 N70-35089 *
US-PATENT-CLASS-250-203 ..... c 14 N70-40239 *
US-PATENT-CLASS-250-203 ..... c 21 N71-10678 *
US-PATENT-CLASS-250-203 ..... c 21 N71-10771 *
US-PATENT-CLASS-250-203 ..... c 21 N71-15642 *
US-PATENT-CLASS-250-203 ..... c 14 N71-19568 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23269 *
US-PATENT-CLASS-250-203 ..... c 14 N71-23797 *
US-PATENT-CLASS-250-203 ..... c 14 N72-22444 *
US-PATENT-CLASS-250-203 ..... c 14 N73-30393 *
US-PATENT-CLASS-250-203 ..... c 35 N75-23910 *
US-PATENT-CLASS-250-204 ..... c 36 N74-21091 *
US-PATENT-CLASS-250-205 ..... c 14 N72-27411 *
US-PATENT-CLASS-250-205 ..... c 09 N73-14214 *
US-PATENT-CLASS-250-205 ..... c 36 N74-13205 *
US-PATENT-CLASS-250-206 ..... c 10 N71-20782 *
US-PATENT-CLASS-250-207 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-207 ..... c 14 N73-32317 *
US-PATENT-CLASS-250-207 ..... c 33 N74-27682 *
US-PATENT-CLASS-250-208 ..... c 14 N72-20379 *
US-PATENT-CLASS-250-209 ..... c 07 N69-39980 * #
US-PATENT-CLASS-250-209 ..... c 20 N71-16340 *
US-PATENT-CLASS-250-209 ..... c 10 N72-17173 *
US-PATENT-CLASS-250-209 ..... c 14 N72-25409 *
US-PATENT-CLASS-250-209 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-209 ..... c 14 N73-26432 *
US-PATENT-CLASS-250-209 ..... c 14 N73-28490 *
US-PATENT-CLASS-250-209 ..... c 21 N73-30640 *
US-PATENT-CLASS-250-209 ..... c 44 N81-24520 *
US-PATENT-CLASS-250-211J ..... c 09 N72-17152 *
US-PATENT-CLASS-250-211J ..... c 09 N73-14214 *
US-PATENT-CLASS-250-211J ..... c 35 N74-15090 *
US-PATENT-CLASS-250-211K ..... c 74 N77-22951 *
US-PATENT-CLASS-250-211K ..... c 44 N80-18552 *
US-PATENT-CLASS-250-211K ..... c 08 N86-27288 *
US-PATENT-CLASS-250-211R .... c 36 N75-19652 *
US-PATENT-CLASS-250-211R .... c 35 N75-23910 *
US-PATENT-CLASS-250-212 ..... c 03 N71-23354 *
US-PATENT-CLASS-250-212 ..... c 03 N73-20040 *
US-PATENT-CLASS-250-212 ..... c 09 N73-32109 *
US-PATENT-CLASS-250-213VT .. c 74 N78-18905 *
US-PATENT-CLASS-250-214AL .. c 74 N79-12890 *
US-PATENT-CLASS-250-214A .... c 33 N77-14335 *
US-PATENT-CLASS-250-214R .... c 14 N73-28490 *
US-PATENT-CLASS-250-214R .... c 74 N79-12890 *
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 *
US-PATENT-CLASS-250-214 ..... c 14 N73-25462 *
US-PATENT-CLASS-250-214 ..... c 35 N74-15090 *
US-PATENT-CLASS-250-214 ..... c 33 N82-28545 *
US-PATENT-CLASS-250-215 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-216 ..... c 74 N79-34011 *
US-PATENT-CLASS-250-216 ..... c 74 N82-24072 *
US-PATENT-CLASS-250-216 ..... c 74 N89-14077 *
US-PATENT-CLASS-250-217F .... c 14 N73-16484 *
US-PATENT-CLASS-250-217R .... c 14 N73-19419 *
US-PATENT-CLASS-250-217SS .. c 09 N73-14214 *
US-PATENT-CLASS-250-217SS .. c 36 N74-15145 *
US-PATENT-CLASS-250-217 ..... c 14 N69-39896 * #
US-PATENT-CLASS-250-217 ..... c 14 N73-16483 *
US-PATENT-CLASS-250-217 ..... c 36 N74-13205 *
US-PATENT-CLASS-250-218 ..... c 14 N71-22996 *
US-PATENT-CLASS-250-218 ..... c 14 N71-28994 *
US-PATENT-CLASS-250-218 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-219DF .. c 91 N74-13130 *
US-PATENT-CLASS-250-219TH .. c 26 N73-26751 *
US-PATENT-CLASS-250-219 ..... c 14 N71-28993 *
US-PATENT-CLASS-250-221 ..... c 33 N82-28545 *
US-PATENT-CLASS-250-221 ..... c 74 N85-22139 *
US-PATENT-CLASS-250-225 ..... c 14 N71-24864 *
US-PATENT-CLASS-250-225 ..... c 14 N72-27409 *
US-PATENT-CLASS-250-225 ..... c 32 N86-20647 *
US-PATENT-CLASS-250-226 ..... c 14 N72-25409 *
US-PATENT-CLASS-250-226 ..... c 43 N79-17288 *
US-PATENT-CLASS-250-226 ..... c 74 N82-30071 *
US-PATENT-CLASS-250-227 ..... c 14 N71-22991 *
US-PATENT-CLASS-250-227 ..... c 14 N71-23240 *
US-PATENT-CLASS-250-227 ..... c 60 N77-14751 *
US-PATENT-CLASS-250-227 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-227 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-227 ..... c 74 N84-11921 *
US-PATENT-CLASS-250-227 ..... c 74 N91-21871 *
US-PATENT-CLASS-250-228 ..... c 74 N86-26190 *
US-PATENT-CLASS-250-229 ..... c 08 N73-30135 *
US-PATENT-CLASS-250-229 ..... c 74 N90-22383 *
US-PATENT-CLASS-250-231-GY .. c 74 N87-23259 *
US-PATENT-CLASS-250-231R .... c 74 N82-30071 *
US-PATENT-CLASS-250-231SE .. c 74 N74-21304 *
US-PATENT-CLASS-250-231SE .. c 44 N80-18552 *
US-PATENT-CLASS-250-231 ..... c 14 N73-20475 *
US-PATENT-CLASS-250-232 ..... c 23 N71-21821 *
US-PATENT-CLASS-250-233 ..... c 23 N71-16100 *
US-PATENT-CLASS-250-234 ..... c 03 N73-20040 *
US-PATENT-CLASS-250-235 ..... c 14 N72-11364 *
US-PATENT-CLASS-250-235 ..... c 43 N82-13465 *
US-PATENT-CLASS-250-235 ..... c 74 N82-24072 *
US-PATENT-CLASS-250-236 ..... c 21 N73-30640 *
US-PATENT-CLASS-250-236 ..... c 43 N82-13465 *
US-PATENT-CLASS-250-237G .... c 74 N79-20856 *
US-PATENT-CLASS-250-237R .... c 08 N73-30135 *
US-PATENT-CLASS-250-237R .... c 19 N74-15089 *
US-PATENT-CLASS-250-237 ..... c 14 N69-24331 * #
US-PATENT-CLASS-250-238 ..... c 33 N75-31332 *
US-PATENT-CLASS-250-238 ..... c 32 N77-28346 *
US-PATENT-CLASS-250-238 ..... c 37 N87-23982 *
US-PATENT-CLASS-250-239 ..... c 08 N73-30135 *
US-PATENT-CLASS-250-239 ..... c 74 N78-33913 *
US-PATENT-CLASS-250-251 ..... c 35 N76-15431 *
US-PATENT-CLASS-250-251 ..... c 35 N84-33767 *
US-PATENT-CLASS-250-251 ..... c 72 N87-21661 *
US-PATENT-CLASS-250-251 ..... c 72 N88-24253 *
US-PATENT-CLASS-250-252.1 .... c 35 N84-33767 *
US-PATENT-CLASS-250-252 ..... c 72 N89-29169 *
US-PATENT-CLASS-250-253 ..... c 43 N79-31706 *
US-PATENT-CLASS-250-272 ..... c 74 N78-15880 *
US-PATENT-CLASS-250-272 ..... c 43 N79-31706 *
US-PATENT-CLASS-250-277CH .. c 76 N78-24950 *
US-PATENT-CLASS-250-277CH .. c 74 N80-21140 *
US-PATENT-CLASS-250-280 ..... c 76 N78-24950 *
US-PATENT-CLASS-250-280 ..... c 74 N80-21140 *
US-PATENT-CLASS-250-281 ..... c 35 N74-34857 *
US-PATENT-CLASS-250-281 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-281 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-281 ..... c 72 N80-14877 *
US-PATENT-CLASS-250-281 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-282 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-282 ..... c 72 N80-14877 *
US-PATENT-CLASS-250-282 ..... c 35 N83-27184 *
US-PATENT-CLASS-250-282 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-283 ..... c 36 N77-26477 *
US-PATENT-CLASS-250-286 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-287 ..... c 35 N76-15431 *
US-PATENT-CLASS-250-287 ..... c 35 N76-16393 *

US-PATENT-CLASS-250-287 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-288 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-288 ..... c 35 N77-32456 *
US-PATENT-CLASS-250-288 ..... c 35 N83-27184 *
US-PATENT-CLASS-250-288 ..... c 72 N87-21660 *
US-PATENT-CLASS-250-288 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-289 ..... c 35 N77-14406 *
US-PATENT-CLASS-250-290 ..... c 35 N77-10492 *
US-PATENT-CLASS-250-291 ..... c 35 N77-10492 *
US-PATENT-CLASS-250-295 ..... c 35 N74-34857 *
US-PATENT-CLASS-250-296 ..... c 35 N84-28016 *
US-PATENT-CLASS-250-298 ..... c 35 N77-14406 *
US-PATENT-CLASS-250-304 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-305 ..... c 72 N84-28575 *
US-PATENT-CLASS-250-305 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-306 ..... c 72 N91-27936 *
US-PATENT-CLASS-250-307 ..... c 25 N80-20334 *
US-PATENT-CLASS-250-307 ..... c 72 N91-27936 *
US-PATENT-CLASS-250-308 ..... c 25 N80-20334 *
US-PATENT-CLASS-250-310 ..... c 35 N78-10429 *
US-PATENT-CLASS-250-310 ..... c 33 N80-14332 *
US-PATENT-CLASS-250-310 ..... c 35 N90-20351 *
US-PATENT-CLASS-250-311 ..... c 33 N83-18996 *
US-PATENT-CLASS-250-320 ..... c 74 N78-15880 *
US-PATENT-CLASS-250-322 ..... c 35 N78-15461 *
US-PATENT-CLASS-250-327.2 .... c 74 N91-14835 *
US-PATENT-CLASS-250-330 ..... c 44 N82-32841 *
US-PATENT-CLASS-250-332 ..... c 35 N75-19613 *
US-PATENT-CLASS-250-332 ..... c 31 N78-25256 *
US-PATENT-CLASS-250-332 ..... c 35 N82-31659 *
US-PATENT-CLASS-250-332 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-332 ..... c 74 N84-28590 *
US-PATENT-CLASS-250-335 ..... c 34 N76-18374 *
US-PATENT-CLASS-250-336.1 .... c 72 N86-33127 *
US-PATENT-CLASS-250-336 ..... c 14 N73-28488 *
US-PATENT-CLASS-250-336 ..... c 35 N76-15433 *
US-PATENT-CLASS-250-336 ..... c 33 N76-27473 *
US-PATENT-CLASS-250-336 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-338.1 .... c 35 N91-14588 *
US-PATENT-CLASS-250-338.2 .... c 35 N91-14588 *
US-PATENT-CLASS-250-338 ..... c 35 N74-18088 *
US-PATENT-CLASS-250-338 ..... c 35 N77-10493 *
US-PATENT-CLASS-250-338 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-338 ..... c 35 N80-26635 *
US-PATENT-CLASS-250-338 ..... c 35 N83-21311 *
US-PATENT-CLASS-250-338 ..... c 74 N84-28590 *
US-PATENT-CLASS-250-338 ..... c 72 N86-33127 *
US-PATENT-CLASS-250-338 ..... c 76 N87-13313 *
US-PATENT-CLASS-250-339 ..... c 35 N77-10493 *
US-PATENT-CLASS-250-339 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-339 ..... c 35 N84-33766 *
US-PATENT-CLASS-250-339 ..... c 36 N85-21631 *
US-PATENT-CLASS-250-339 ..... c 36 N85-29264 *
US-PATENT-CLASS-250-339 ..... c 36 N87-28006 *
US-PATENT-CLASS-250-340 ..... c 35 N76-29551 *
US-PATENT-CLASS-250-340 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-340 ..... c 72 N86-33127 *
US-PATENT-CLASS-250-341 ..... c 32 N87-21206 *
US-PATENT-CLASS-250-343 ..... c 35 N74-11284 *
US-PATENT-CLASS-250-343 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-343 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-343 ..... c 74 N76-20958 *
US-PATENT-CLASS-250-343 ..... c 25 N76-22323 *
US-PATENT-CLASS-250-343 ..... c 35 N77-14411 *
US-PATENT-CLASS-250-343 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-343 ..... c 25 N81-14015 *
US-PATENT-CLASS-250-343 ..... c 35 N84-34705 *
US-PATENT-CLASS-250-343 ..... c 36 N85-21631 *
US-PATENT-CLASS-250-343 ..... c 36 N87-28006 *
US-PATENT-CLASS-250-344 ..... c 25 N76-22323 *
US-PATENT-CLASS-250-344 ..... c 74 N78-17867 *
US-PATENT-CLASS-250-345 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-347 ..... c 35 N77-10493 *
US-PATENT-CLASS-250-347 ..... c 47 N77-10753 *
US-PATENT-CLASS-250-347 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-350 ..... c 25 N81-25159 *
US-PATENT-CLASS-250-350 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-351 ..... c 35 N75-30502 *
US-PATENT-CLASS-250-351 ..... c 35 N78-13400 *
US-PATENT-CLASS-250-351 ..... c 74 N83-19597 *
US-PATENT-CLASS-250-351 ..... c 35 N84-34705 *
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US-PATENT-CLASS-250-352 ..... c 34 N79-20336 *
US-PATENT-CLASS-250-352 ..... c 35 N80-26635 *
US-PATENT-CLASS-250-352 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-352 ..... c 37 N87-23982 *
US-PATENT-CLASS-250-353 ..... c 35 N76-29551 *
US-PATENT-CLASS-250-353 ..... c 35 N80-26635 *
US-PATENT-CLASS-250-353 ..... c 74 N80-33210 *
US-PATENT-CLASS-250-356.1 .... c 47 N84-28292 *
US-PATENT-CLASS-250-356.1 .... c 35 N91-31608 *
US-PATENT-CLASS-250-358.1 .... c 72 N91-27936 *
US-PATENT-CLASS-250-359 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-360 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-361 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-363R .... c 52 N77-14737 *
US-PATENT-CLASS-250-363R .... c 74 N79-20857 *
US-PATENT-CLASS-250-363R .... c 74 N84-11920 *
US-PATENT-CLASS-250-363S ..... c 74 N84-11920 *
US-PATENT-CLASS-250-363S ..... c 35 N85-30281 *
US-PATENT-CLASS-250-367 ..... c 35 N84-33765 *
US-PATENT-CLASS-250-368 ..... c 74 N81-24900 *
US-PATENT-CLASS-250-368 ..... c 74 N84-11920 *
US-PATENT-CLASS-250-369 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-369 ..... c 35 N82-32659 *
US-PATENT-CLASS-250-369 ..... c 35 N85-30281 *
US-PATENT-CLASS-250-370.12 .. c 35 N91-14588 *
US-PATENT-CLASS-250-370.13 .. c 35 N91-14588 *
US-PATENT-CLASS-250-370 ..... c 35 N74-18088 *
US-PATENT-CLASS-250-370 ..... c 33 N75-31332 *
US-PATENT-CLASS-250-370 ..... c 35 N82-31659 *
US-PATENT-CLASS-250-370 ..... c 44 N82-32841 *
US-PATENT-CLASS-250-370 ..... c 76 N87-13313 *
US-PATENT-CLASS-250-371 ..... c 35 N74-18088 *
US-PATENT-CLASS-250-372 ..... c 19 N74-29410 *
US-PATENT-CLASS-250-372 ..... c 24 N76-24363 *
US-PATENT-CLASS-250-372 ..... c 33 N76-27473 *
US-PATENT-CLASS-250-372 ..... c 35 N83-21311 *
US-PATENT-CLASS-250-372 ..... c 35 N84-33767 *
US-PATENT-CLASS-250-373 ..... c 25 N74-26947 *
US-PATENT-CLASS-250-373 ..... c 35 N75-30502 *
US-PATENT-CLASS-250-373 ..... c 45 N76-17656 *
US-PATENT-CLASS-250-373 ..... c 36 N87-28006 *
US-PATENT-CLASS-250-374 ..... c 35 N74-26949 *
US-PATENT-CLASS-250-374 ..... c 35 N85-34374 *
US-PATENT-CLASS-250-379 ..... c 35 N85-34374 *
US-PATENT-CLASS-250-385 ..... c 35 N74-26949 *
US-PATENT-CLASS-250-385 ..... c 35 N75-27331 *
US-PATENT-CLASS-250-385 ..... c 35 N76-15433 *
US-PATENT-CLASS-250-385 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-385 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-385 ..... c 35 N84-33765 *
US-PATENT-CLASS-250-386 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-388 ..... c 33 N83-24763 *
US-PATENT-CLASS-250-389 ..... c 35 N82-24471 *
US-PATENT-CLASS-250-394 ..... c 14 N73-30392 *
US-PATENT-CLASS-250-394 ..... c 19 N74-29410 *
US-PATENT-CLASS-250-396-ML .. c 35 N90-20351 *
US-PATENT-CLASS-250-396-R ... c 72 N87-21661 *
US-PATENT-CLASS-250-396-R ... c 35 N90-20351 *
US-PATENT-CLASS-250-396 ..... c 35 N77-14408 *
US-PATENT-CLASS-250-397 ..... c 72 N89-29169 *
US-PATENT-CLASS-250-398 ..... c 35 N78-10429 *
US-PATENT-CLASS-250-400 ..... c 25 N76-29379 *
US-PATENT-CLASS-250-400 ..... c 25 N78-27226 *
US-PATENT-CLASS-250-41.9D ... c 14 N72-29464 *
US-PATENT-CLASS-250-41.9G ... c 14 N73-12444 *
US-PATENT-CLASS-250-41.9S .... c 14 N73-12444 *
US-PATENT-CLASS-250-41.95 .... c 14 N71-28992 *
US-PATENT-CLASS-250-41.9 ..... c 06 N71-13461 *
US-PATENT-CLASS-250-41.9 ..... c 24 N71-16095 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-23041 *
US-PATENT-CLASS-250-41.9 ..... c 14 N71-28863 *
US-PATENT-CLASS-250-41.9 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-41.9 ..... c 14 N73-32325 *
US-PATENT-CLASS-250-416TV .. c 35 N78-15461 *
US-PATENT-CLASS-250-423-P ... c 72 N87-21661 *
US-PATENT-CLASS-250-423-P ... c 25 N88-24732 *
US-PATENT-CLASS-250-423-R ... c 33 N87-21234 *
US-PATENT-CLASS-250-423-R ... c 72 N87-21660 *
US-PATENT-CLASS-250-423-R ... c 72 N88-24253 *
US-PATENT-CLASS-250-423P ..... c 36 N77-26477 *
US-PATENT-CLASS-250-423P ..... c 25 N78-25148 *
US-PATENT-CLASS-250-423P ..... c 72 N80-14877 *
US-PATENT-CLASS-250-423 ..... c 35 N76-15431 *
US-PATENT-CLASS-250-423 ..... c 35 N76-16393 *
US-PATENT-CLASS-250-423 ..... c 35 N83-27184 *
US-PATENT-CLASS-250-423 ..... c 35 N91-14587 *
US-PATENT-CLASS-250-424 ..... c 72 N87-21660 *
US-PATENT-CLASS-250-426 ..... c 33 N85-21491 *
US-PATENT-CLASS-250-427 ..... c 72 N80-27163 *
US-PATENT-CLASS-250-427 ..... c 72 N87-21660 *
US-PATENT-CLASS-250-427 ..... c 72 N88-24253 *
US-PATENT-CLASS-250-427 ..... c 25 N88-24732 *
US-PATENT-CLASS-250-429 ..... c 25 N76-29379 *
US-PATENT-CLASS-250-429 ..... c 25 N78-27226 *
US-PATENT-CLASS-250-43.5FC . c 14 N72-11365 *
US-PATENT-CLASS-250-43.5R ... c 14 N71-27090 *
US-PATENT-CLASS-250-43.5R ... c 14 N72-21408 *
US-PATENT-CLASS-250-43.5R ... c 06 N72-25146 *
US-PATENT-CLASS-250-43.5R ... c 06 N72-31141 *
US-PATENT-CLASS-250-43.5 ..... c 27 N71-16348 *
US-PATENT-CLASS-250-43.5 ..... c 15 N71-24896 *
US-PATENT-CLASS-250-43.5 ..... c 14 N71-25901 *
US-PATENT-CLASS-250-432R .... c 25 N76-22323 *
US-PATENT-CLASS-250-432 ..... c 45 N75-27585 *
US-PATENT-CLASS-250-444 ..... c 52 N77-14737 *
US-PATENT-CLASS-250-457 ..... c 35 N80-28686 *
US-PATENT-CLASS-250-459.1 .... c 35 N90-22770 *
US-PATENT-CLASS-250-460 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-461.1 .... c 35 N90-22770 *
US-PATENT-CLASS-250-474.1 .... c 35 N83-21311 *
US-PATENT-CLASS-250-475 ..... c 35 N79-10389 *
US-PATENT-CLASS-250-483.1 .... c 35 N84-33765 *
US-PATENT-CLASS-250-483 ..... c 74 N79-20857 *
US-PATENT-CLASS-250-483 ..... c 74 N81-24900 *
US-PATENT-CLASS-250-484.1 .... c 74 N91-14835 *
US-PATENT-CLASS-250-489 ..... c 35 N76-15433 *
US-PATENT-CLASS-250-49.5B ... c 24 N72-11595 *
US-PATENT-CLASS-250-49.5TE . c 24 N72-11595 *
US-PATENT-CLASS-250-49.5 ..... c 14 N69-39982 * #
US-PATENT-CLASS-250-49.5 ..... c 14 N71-28863 *
US-PATENT-CLASS-250-49.5 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-491 ..... c 35 N80-28686 *
US-PATENT-CLASS-250-492A .... c 33 N80-14332 *
US-PATENT-CLASS-250-492B .... c 25 N78-27226 *
US-PATENT-CLASS-250-492R .... c 25 N76-29379 *
US-PATENT-CLASS-250-492R .... c 28 N78-24365 *
US-PATENT-CLASS-250-492 ..... c 35 N74-15091 *
US-PATENT-CLASS-250-492 ..... c 37 N75-26372 *
US-PATENT-CLASS-250-493.1 .... c 35 N91-14588 *
US-PATENT-CLASS-250-493 ..... c 73 N75-30876 *
US-PATENT-CLASS-250-495 ..... c 74 N75-12732 *
US-PATENT-CLASS-250-496 ..... c 73 N75-30876 *
US-PATENT-CLASS-250-498 ..... c 52 N77-14737 *
US-PATENT-CLASS-250-499 ..... c 73 N74-26767 *
US-PATENT-CLASS-250-499 ..... c 72 N76-15860 *
US-PATENT-CLASS-250-499 ..... c 37 N78-13436 *
US-PATENT-CLASS-250-500 ..... c 72 N76-15860 *
US-PATENT-CLASS-250-505 ..... c 74 N74-27866 *
US-PATENT-CLASS-250-505 ..... c 35 N75-19616 *
US-PATENT-CLASS-250-508 ..... c 35 N75-19616 *
US-PATENT-CLASS-250-51.5 ..... c 23 N73-13662 *
US-PATENT-CLASS-250-51.5 ..... c 14 N73-28491 *
US-PATENT-CLASS-250-510 ..... c 35 N75-19616 *
US-PATENT-CLASS-250-511 ..... c 74 N74-27866 *
US-PATENT-CLASS-250-513 ..... c 35 N80-28686 *
US-PATENT-CLASS-250-518 ..... c 14 N73-30392 *
US-PATENT-CLASS-250-51 ..... c 24 N72-11595 *
US-PATENT-CLASS-250-527 ..... c 37 N76-18458 *
US-PATENT-CLASS-250-527 ..... c 25 N77-32255 *
US-PATENT-CLASS-250-527 ..... c 44 N77-32580 *
US-PATENT-CLASS-250-527 ..... c 44 N79-11470 *
US-PATENT-CLASS-250-527 ..... c 44 N82-16475 *
US-PATENT-CLASS-250-528 ..... c 25 N78-25148 *
US-PATENT-CLASS-250-52 ..... c 15 N71-15606 *
US-PATENT-CLASS-250-52 ..... c 11 N71-23042 *
US-PATENT-CLASS-250-52 ..... c 24 N72-11595 *
US-PATENT-CLASS-250-52 ..... c 23 N73-13662 *
US-PATENT-CLASS-250-531 ..... c 25 N78-25148 *
US-PATENT-CLASS-250-531 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-540 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-541 ..... c 33 N79-15245 *
US-PATENT-CLASS-250-551 ..... c 74 N79-34011 *
US-PATENT-CLASS-250-563 ..... c 38 N78-17396 *
US-PATENT-CLASS-250-566 ..... c 74 N75-25706 *
US-PATENT-CLASS-250-571 ..... c 36 N78-14380 *
US-PATENT-CLASS-250-572 ..... c 38 N78-17395 *
US-PATENT-CLASS-250-572 ..... c 38 N78-17396 *
US-PATENT-CLASS-250-573 ..... c 74 N76-20958 *
US-PATENT-CLASS-250-573 ..... c 34 N83-31993 *
US-PATENT-CLASS-250-574 ..... c 45 N76-21742 *
US-PATENT-CLASS-250-574 ..... c 36 N77-25501 *
US-PATENT-CLASS-250-576 ..... c 35 N74-27860 *
US-PATENT-CLASS-250-578 ..... c 36 N75-19652 *
US-PATENT-CLASS-250-65F ..... c 15 N72-25452 *
US-PATENT-CLASS-250-65R ..... c 14 N73-30389 *
US-PATENT-CLASS-250-71.5R ... c 14 N72-29464 *
US-PATENT-CLASS-250-71.5 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-71R ..... c 06 N73-16106 *
US-PATENT-CLASS-250-71 ..... c 14 N70-41676 *
US-PATENT-CLASS-250-83.3H ... c 14 N72-21408 *
US-PATENT-CLASS-250-83.3H ... c 14 N72-24477 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-12445 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-20475 *
US-PATENT-CLASS-250-83.3H ... c 14 N73-25462 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-12445 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-20477 *
US-PATENT-CLASS-250-83.3R ... c 14 N73-32317 *
US-PATENT-CLASS-250-83.3UV . c 10 N72-17173 *
US-PATENT-CLASS-250-83.3UV . c 14 N72-25409 *
US-PATENT-CLASS-250-83.3UV . c 06 N73-16106 *
US-PATENT-CLASS-250-83.3 ..... c 21 N70-33181 *
US-PATENT-CLASS-250-83.3 ..... c 21 N70-34297 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-15599 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-18699 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-21088 *
US-PATENT-CLASS-250-83.3 ..... c 09 N71-22985 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-25901 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-26475 *
US-PATENT-CLASS-250-83.3 ..... c 14 N71-27323 *
US-PATENT-CLASS-250-83.3 ..... c 14 N72-17328 *
US-PATENT-CLASS-250-83.3 ..... c 35 N75-27329 *
US-PATENT-CLASS-250-83.6R ... c 14 N71-27090 *
US-PATENT-CLASS-250-83.6R ... c 14 N72-20381 *
US-PATENT-CLASS-250-83.6R ... c 25 N72-33696 *
US-PATENT-CLASS-250-83.6R ... c 74 N81-19898 *
US-PATENT-CLASS-250-83.6 ..... c 10 N70-41991 *

US-PATENT-CLASS-250-83CD .... c 91 N74-13130 *
US-PATENT-CLASS-250-83R ..... c 14 N73-12445 *
US-PATENT-CLASS-250-83R ..... c 14 N73-20477 *
US-PATENT-CLASS-250-83 ..... c 14 N69-27484 * #
US-PATENT-CLASS-250-83 ..... c 14 N69-39937 * #
US-PATENT-CLASS-250-83 ..... c 09 N71-18830 *
US-PATENT-CLASS-250-83 ..... c 05 N71-19440 *
US-PATENT-CLASS-250-83 ..... c 14 N71-20430 *
US-PATENT-CLASS-250-83 ..... c 14 N71-23401 *
US-PATENT-CLASS-250-83 ..... c 09 N71-27232 *
US-PATENT-CLASS-250-84 ..... c 14 N71-24809 *
US-PATENT-CLASS-251-118 ..... c 15 N71-18580 *
US-PATENT-CLASS-251-11 ..... c 15 N70-35407 *
US-PATENT-CLASS-251-120 ..... c 37 N74-21065 *
US-PATENT-CLASS-251-121 ..... c 15 N71-18580 *
US-PATENT-CLASS-251-122 ..... c 15 N73-13462 *
US-PATENT-CLASS-251-122 ..... c 37 N74-21065 *
US-PATENT-CLASS-251-127 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-127 ..... c 44 N84-14583 *
US-PATENT-CLASS-251-129.15 .. c 37 N87-25573 *
US-PATENT-CLASS-251-129.15 .. c 34 N91-27504 *
US-PATENT-CLASS-251-129 ..... c 15 N72-20442 *
US-PATENT-CLASS-251-138 ..... c 37 N80-23654 *
US-PATENT-CLASS-251-148 ..... c 15 N71-23024 *
US-PATENT-CLASS-251-148 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-149.6 .... c 37 N76-14463 *
US-PATENT-CLASS-251-149.9 .... c 37 N79-11402 *
US-PATENT-CLASS-251-160 ..... c 37 N91-14609 *
US-PATENT-CLASS-251-163 ..... c 37 N91-14609 *
US-PATENT-CLASS-251-165 ..... c 37 N87-21332 *
US-PATENT-CLASS-251-172 ..... c 15 N71-21234 *
US-PATENT-CLASS-251-172 ..... c 37 N79-33469 *
US-PATENT-CLASS-251-173 ..... c 15 N70-33376 *
US-PATENT-CLASS-251-175 ..... c 37 N87-25573 *
US-PATENT-CLASS-251-205 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-210 ..... c 37 N74-21065 *
US-PATENT-CLASS-251-212 ..... c 34 N91-14563 *
US-PATENT-CLASS-251-216 ..... c 37 N81-17433 *
US-PATENT-CLASS-251-265 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-267 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-284 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-297 ..... c 37 N85-20338 *
US-PATENT-CLASS-251-31 ..... c 15 N71-19485 *
US-PATENT-CLASS-251-325 ..... c 37 N85-29284 *
US-PATENT-CLASS-251-326 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-331 ..... c 15 N72-31483 *
US-PATENT-CLASS-251-333 ..... c 15 N70-34859 *
US-PATENT-CLASS-251-333 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-333 ..... c 15 N72-20442 *
US-PATENT-CLASS-251-333 ..... c 37 N75-25185 *
US-PATENT-CLASS-251-339 ..... c 37 N81-17433 *
US-PATENT-CLASS-251-342 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-349 ..... c 37 N85-29284 *
US-PATENT-CLASS-251-353 ..... c 37 N85-29284 *
US-PATENT-CLASS-251-358 ..... c 15 N71-17648 *
US-PATENT-CLASS-251-360 ..... c 15 N72-25451 *
US-PATENT-CLASS-251-363 ..... c 34 N91-27504 *
US-PATENT-CLASS-251-61.1 ..... c 12 N71-18615 *
US-PATENT-CLASS-251-61 ..... c 15 N71-10778 *
US-PATENT-CLASS-251-7 ..... c 37 N79-28550 *
US-PATENT-CLASS-251-86 ..... c 15 N72-31483 *
US-PATENT-CLASS-251-86 ..... c 37 N80-23654 *
US-PATENT-CLASS-252-12.2 ..... c 24 N79-17916 *
US-PATENT-CLASS-252-12 ..... c 15 N71-23810 *
US-PATENT-CLASS-252-12 ..... c 24 N76-22309 *
US-PATENT-CLASS-252-182.1 .... c 33 N84-14422 *
US-PATENT-CLASS-252-26 ..... c 15 N71-21403 *
US-PATENT-CLASS-252-26 ..... c 15 N71-24046 *
US-PATENT-CLASS-252-2 ..... c 25 N83-36118 *
US-PATENT-CLASS-252-300 ..... c 14 N72-22443 *
US-PATENT-CLASS-252-300 ..... c 24 N76-24363 *
US-PATENT-CLASS-252-301.1R . c 35 N79-10389 *
US-PATENT-CLASS-252-301.16 .. c 35 N79-10389 *
US-PATENT-CLASS-252-301.2 .... c 18 N71-27170 *
US-PATENT-CLASS-252-301.4 .... c 06 N73-30097 *
US-PATENT-CLASS-252-305 ..... c 06 N73-30097 *
US-PATENT-CLASS-252-359A .... c 37 N77-13418 *
US-PATENT-CLASS-252-361 ..... c 71 N83-35781 *
US-PATENT-CLASS-252-364 ..... c 28 N81-15119 *
US-PATENT-CLASS-252-373 ..... c 44 N76-29704 *
US-PATENT-CLASS-252-373 ..... c 44 N77-10636 *
US-PATENT-CLASS-252-408 ..... c 14 N73-14428 *
US-PATENT-CLASS-252-422 ..... c 45 N82-11634 *
US-PATENT-CLASS-252-431N .... c 06 N73-32029 *
US-PATENT-CLASS-252-431R .... c 06 N73-32029 *
US-PATENT-CLASS-252-472 ..... c 25 N78-10225 *
US-PATENT-CLASS-252-510 ..... c 24 N91-15320 *
US-PATENT-CLASS-252-514 ..... c 05 N72-25120 *
US-PATENT-CLASS-252-514 ..... c 44 N79-31752 *
US-PATENT-CLASS-252-514 ..... c 25 N82-26396 *
US-PATENT-CLASS-252-518 ..... c 24 N79-14156 *
US-PATENT-CLASS-252-549 ..... c 23 N75-14834 *
US-PATENT-CLASS-252-58 ..... c 18 N70-39897 *
US-PATENT-CLASS-252-5 ..... c 25 N83-33977 *
US-PATENT-CLASS-252-5 ..... c 25 N83-36118 *
US-PATENT-CLASS-252-62.2 ..... c 33 N91-14536 *
US-PATENT-CLASS-252-62.3E .... c 44 N80-24741 *
US-PATENT-CLASS-252-62.3E .... c 44 N81-19558 *
US-PATENT-CLASS-252-62.3GA .. c 25 N75-26043 *
US-PATENT-CLASS-252-62.3 ..... c 26 N71-23292 *
US-PATENT-CLASS-252-62.3 ..... c 76 N76-25049 *
US-PATENT-CLASS-252-62 ..... c 27 N74-27037 *
US-PATENT-CLASS-252-70 ..... c 23 N75-14834 *
US-PATENT-CLASS-252-8.1 ..... c 18 N73-26572 *
US-PATENT-CLASS-252-8.1 ..... c 27 N74-27037 *
US-PATENT-CLASS-252-8.1 ..... c 24 N78-14096 *
US-PATENT-CLASS-253-317 ..... c 44 N77-22606 *
US-PATENT-CLASS-253-39.15 .... c 15 N70-33226 *
US-PATENT-CLASS-253-39.15 .... c 15 N70-33264 *
US-PATENT-CLASS-253-39.15 .... c 28 N70-33372 *
US-PATENT-CLASS-253-39.1 ..... c 33 N71-29152 *
US-PATENT-CLASS-253-66 ..... c 15 N70-36412 *
US-PATENT-CLASS-253-66 ..... c 28 N70-39895 *
US-PATENT-CLASS-253-77 ..... c 28 N71-28928 *
US-PATENT-CLASS-253-77 ..... c 28 N71-29154 *
US-PATENT-CLASS-253 ..... c 25 N79-28253 *
US-PATENT-CLASS-254-101 ..... c 37 N91-21543 *
US-PATENT-CLASS-254-124 ..... c 20 N76-22296 *
US-PATENT-CLASS-254-131 ..... c 60 N82-24839 *
US-PATENT-CLASS-254-150 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-156 ..... c 15 N73-25512 *
US-PATENT-CLASS-254-158 ..... c 54 N77-21844 *
US-PATENT-CLASS-254-173 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-186 ..... c 15 N71-24599 *
US-PATENT-CLASS-254-190 ..... c 15 N72-25453 *
US-PATENT-CLASS-254-29A ..... c 15 N73-30457 *
US-PATENT-CLASS-254-93-H ..... c 35 N88-24927 *
US-PATENT-CLASS-254-93-R ..... c 35 N88-24927 *
US-PATENT-CLASS-254-93R ..... c 35 N74-13129 *
US-PATENT-CLASS-254-93R ..... c 20 N76-22296 *
US-PATENT-CLASS-256-13.1 ..... c 37 N79-10420 *
US-PATENT-CLASS-256-1 ..... c 37 N79-10420 *
US-PATENT-CLASS-256-308.2 .... c 27 N86-20561 *
US-PATENT-CLASS-259-DIG.18 . c 35 N74-15093 *
US-PATENT-CLASS-259-4AC ..... c 37 N76-19436 *
US-PATENT-CLASS-259-4 ..... c 15 N73-19458 *
US-PATENT-CLASS-259-60 ..... c 35 N74-15093 *
US-PATENT-CLASS-259-71 ..... c 15 N71-21177 *
US-PATENT-CLASS-259-72 ..... c 37 N74-18123 *
US-PATENT-CLASS-259-98 ..... c 35 N74-15126 *
US-PATENT-CLASS-259/4R ..... c 34 N77-24423 *
US-PATENT-CLASS-260.46.5E .... c 27 N74-21156 *
US-PATENT-CLASS-260-DIG.15 . c 27 N78-14164 *
US-PATENT-CLASS-260-DIG.24 . c 27 N74-27037 *
US-PATENT-CLASS-260-DIG.24 . c 27 N76-24405 *
US-PATENT-CLASS-260-DIG.29 . c 27 N80-24438 *
US-PATENT-CLASS-260-17.2 ..... c 24 N80-26388 *
US-PATENT-CLASS-260-17.2 ..... c 24 N81-13999 *
US-PATENT-CLASS-260-17.4UC . c 23 N81-29160 *
US-PATENT-CLASS-260-17A ..... c 27 N81-14076 *
US-PATENT-CLASS-260-18S ..... c 06 N72-25151 *
US-PATENT-CLASS-260-2.1E ..... c 18 N72-22567 *
US-PATENT-CLASS-260-2.1E ..... c 27 N81-14076 *
US-PATENT-CLASS-260-2.1E ..... c 25 N81-19244 *
US-PATENT-CLASS-260-2.1 ..... c 25 N81-17187 *
US-PATENT-CLASS-260-2.2R ..... c 25 N81-17187 *
US-PATENT-CLASS-260-2.2R ..... c 25 N81-19244 *
US-PATENT-CLASS-260-2.5AK ... c 27 N76-15310 *
US-PATENT-CLASS-260-2.5AK ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5AM .. c 27 N74-12812 *
US-PATENT-CLASS-260-2.5AM .. c 27 N77-31308 *
US-PATENT-CLASS-260-2.5AP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5AY ... c 27 N77-31308 *
US-PATENT-CLASS-260-2.5A ..... c 27 N77-31308 *
US-PATENT-CLASS-260-2.5BE ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5B ..... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5EP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5FP ... c 06 N72-25147 *
US-PATENT-CLASS-260-2.5FP ... c 27 N74-27037 *
US-PATENT-CLASS-260-2.5FP ... c 24 N78-24290 *
US-PATENT-CLASS-260-2.5F ..... c 18 N73-13562 *
US-PATENT-CLASS-260-2.5L ..... c 27 N74-12814 *
US-PATENT-CLASS-260-2.5N ..... c 24 N78-15180 *
US-PATENT-CLASS-260-2.5N ..... c 27 N78-31232 *
US-PATENT-CLASS-260-2.5R ..... c 27 N74-27037 *
US-PATENT-CLASS-260-2.5R ..... c 24 N78-15180 *
US-PATENT-CLASS-260-2.5 ..... c 06 N71-11242 *
US-PATENT-CLASS-260-2.5 ..... c 06 N71-24739 *
US-PATENT-CLASS-260-2.5 ..... c 06 N71-25929 *
US-PATENT-CLASS-260-2.5 ..... c 18 N71-26155 *
US-PATENT-CLASS-260-2.5 ..... c 06 N72-25150 *
US-PATENT-CLASS-260-2P ..... c 27 N78-32256 *
US-PATENT-CLASS-260-2R ..... c 37 N74-18126 *
US-PATENT-CLASS-260-2R ..... c 27 N74-27037 *
US-PATENT-CLASS-260-2R ..... c 27 N78-15276 *
US-PATENT-CLASS-260-211.5 .... c 06 N72-25149 *
US-PATENT-CLASS-260-240G .... c 27 N76-32315 *
US-PATENT-CLASS-260-245.75 .. c 27 N86-19455 *
US-PATENT-CLASS-260-245.9 .... c 27 N86-19455 *
US-PATENT-CLASS-260-28.5 ..... c 27 N78-33228 *
US-PATENT-CLASS-260-29.1R ... c 24 N78-24290 *
US-PATENT-CLASS-260-29.6RB . c 25 N81-19242 *
US-PATENT-CLASS-260-29.6S .... c 27 N74-17283 *
US-PATENT-CLASS-260-29.6 ..... c 26 N75-27125 *
US-PATENT-CLASS-260-2 ..... c 06 N71-11243 *
US-PATENT-CLASS-260-2 ..... c 06 N71-20717 *
US-PATENT-CLASS-260-2 ..... c 06 N71-20905 *
US-PATENT-CLASS-260-2 ..... c 06 N71-27363 *
US-PATENT-CLASS-260-2 ..... c 06 N73-30102 *
US-PATENT-CLASS-260-2 ..... c 27 N79-21190 *
US-PATENT-CLASS-260-30.2 .... c 06 N73-27980 *
US-PATENT-CLASS-260-30.4N ... c 27 N78-17205 *
US-PATENT-CLASS-260-30.8DS . c 06 N73-27980 *
US-PATENT-CLASS-260-307G .... c 27 N79-22300 *
US-PATENT-CLASS-260-32.2R ... c 27 N78-17205 *
US-PATENT-CLASS-260-32.6NT . c 27 N78-17205 *
US-PATENT-CLASS-260-32.6N ... c 06 N73-27980 *
US-PATENT-CLASS-260-32.6N ... c 23 N76-15268 *
US-PATENT-CLASS-260-32.8N ... c 23 N76-15268 *
US-PATENT-CLASS-260-326N .... c 27 N81-17260 *
US-PATENT-CLASS-260-326S .... c 27 N81-17260 *
US-PATENT-CLASS-260-33.4R ... c 06 N73-27980 *
US-PATENT-CLASS-260-33.4R ... c 27 N78-17205 *
US-PATENT-CLASS-260-33.4R ... c 27 N81-19296 *
US-PATENT-CLASS-260-33.6EP . c 24 N78-27180 *
US-PATENT-CLASS-260-33.6PQ . c 24 N78-27180 *
US-PATENT-CLASS-260-33.6R ... c 06 N73-27980 *
US-PATENT-CLASS-260-33.6UB . c 27 N81-15104 *
US-PATENT-CLASS-260-33.8EP . c 24 N78-27180 *
US-PATENT-CLASS-260-33.8F .... c 27 N76-24405 *
US-PATENT-CLASS-260-33.8F .... c 25 N81-14016 *
US-PATENT-CLASS-260-33.8UA . c 24 N78-27180 *
US-PATENT-CLASS-260-340.9R . c 23 N82-16174 *
US-PATENT-CLASS-260-346.3 .... c 23 N75-30256 *
US-PATENT-CLASS-260-346.3 .... c 23 N76-15268 *
US-PATENT-CLASS-260-346.3 .... c 27 N80-32515 *
US-PATENT-CLASS-260-348SC .. c 06 N72-25148 *
US-PATENT-CLASS-260-37EP .... c 24 N78-24290 *
US-PATENT-CLASS-260-37EP .... c 24 N78-27180 *
US-PATENT-CLASS-260-37EP .... c 15 N79-26100 *
US-PATENT-CLASS-260-37EP .... c 27 N81-17260 *
US-PATENT-CLASS-260-37N ..... c 27 N79-28307 *
US-PATENT-CLASS-260-37 ..... c 18 N71-25881 *
US-PATENT-CLASS-260-37 ..... c 27 N81-24258 *
US-PATENT-CLASS-260-386 ..... c 25 N82-24312 *
US-PATENT-CLASS-260-386 ..... c 23 N88-26404 *
US-PATENT-CLASS-260-386 ..... c 25 N90-23497 *
US-PATENT-CLASS-260-389 ..... c 25 N82-24312 *
US-PATENT-CLASS-260-389 ..... c 23 N88-26404 *
US-PATENT-CLASS-260-395 ..... c 23 N88-26404 *
US-PATENT-CLASS-260-395 ..... c 25 N90-23497 *
US-PATENT-CLASS-260-396N .... c 27 N74-27037 *
US-PATENT-CLASS-260-404.5 .... c 18 N71-15688 *
US-PATENT-CLASS-260-42.17 .... c 27 N78-17215 *
US-PATENT-CLASS-260-42.43 .... c 24 N78-27180 *
US-PATENT-CLASS-260-429 ..... c 06 N71-28808 *
US-PATENT-CLASS-260-42 ..... c 27 N79-28307 *
US-PATENT-CLASS-260-448.2D . c 06 N72-25151 *
US-PATENT-CLASS-260-448.2D . c 06 N73-32030 *
US-PATENT-CLASS-260-448.2N . c 37 N74-21058 *
US-PATENT-CLASS-260-448.2 .... c 06 N71-23230 *
US-PATENT-CLASS-260-45.7R ... c 24 N78-27180 *
US-PATENT-CLASS-260-45.7R ... c 27 N82-16238 *
US-PATENT-CLASS-260-45.75W . c 24 N78-27180 *
US-PATENT-CLASS-260-45.7 ..... c 27 N76-24405 *
US-PATENT-CLASS-260-45.85N . c 24 N78-27180 *
US-PATENT-CLASS-260-45.9R ... c 24 N78-27180 *
US-PATENT-CLASS-260-46.5E ... c 06 N72-25151 *
US-PATENT-CLASS-260-46.5G ... c 06 N72-25151 *
US-PATENT-CLASS-260-46.5P .... c 06 N72-25151 *
US-PATENT-CLASS-260-46.5R ... c 06 N73-26100 *
US-PATENT-CLASS-260-46.5 ..... c 06 N71-11237 *
US-PATENT-CLASS-260-46.5 ..... c 06 N71-11240 *
US-PATENT-CLASS-260-465.5R . c 27 N81-24256 *
US-PATENT-CLASS-260-465.5R . c 27 N84-22744 *
US-PATENT-CLASS-260-465.6 .... c 27 N84-22744 *
US-PATENT-CLASS-260-47CP .... c 06 N73-27980 *
US-PATENT-CLASS-260-47CP .... c 23 N76-15268 *
US-PATENT-CLASS-260-47CP .... c 27 N78-31232 *
US-PATENT-CLASS-260-47CP .... c 27 N78-32261 *
US-PATENT-CLASS-260-47UP .... c 06 N73-32029 *
US-PATENT-CLASS-260-47 ..... c 06 N71-28620 *
US-PATENT-CLASS-260-47 ..... c 06 N71-28807 *
US-PATENT-CLASS-260-485F .... c 06 N73-30098 *
US-PATENT-CLASS-260-49 ..... c 27 N78-32261 *
US-PATENT-CLASS-260-520 ..... c 23 N75-30256 *
US-PATENT-CLASS-260-535H .... c 06 N72-27144 *
US-PATENT-CLASS-260-53 ..... c 27 N79-28307 *
US-PATENT-CLASS-260-544-D ... c 27 N86-21675 *
US-PATENT-CLASS-260-544-P ... c 27 N87-14515 *
US-PATENT-CLASS-260-544F .... c 06 N72-20121 *
US-PATENT-CLASS-260-544P .... c 27 N86-27450 *
US-PATENT-CLASS-260-551P .... c 27 N78-32256 *
US-PATENT-CLASS-260-566B .... c 27 N76-32315 *
US-PATENT-CLASS-260-567.6M . c 06 N73-32029 *
US-PATENT-CLASS-260-571 ..... c 23 N76-15268 *
US-PATENT-CLASS-260-606-5P . c 27 N78-32256 *
US-PATENT-CLASS-260-615 ..... c 06 N71-27254 *

US-PATENT-CLASS-260-615 ..... c 06 N73-30101 *
US-PATENT-CLASS-260-63N ..... c 27 N78-31232 *
US-PATENT-CLASS-260-63N ..... c 27 N78-32261 *
US-PATENT-CLASS-260-63R ..... c 27 N78-32261 *
US-PATENT-CLASS-260-65 ..... c 06 N73-27980 *
US-PATENT-CLASS-260-65 ..... c 27 N78-32261 *
US-PATENT-CLASS-260-65 ..... c 23 N82-29358 *
US-PATENT-CLASS-260-67 ..... c 27 N78-17214 *
US-PATENT-CLASS-260-67 ..... c 27 N79-21191 *
US-PATENT-CLASS-260-72.5 ..... c 06 N71-11236 *
US-PATENT-CLASS-260-72.5 ..... c 06 N71-11239 *
US-PATENT-CLASS-260-72.5 ..... c 06 N71-24740 *
US-PATENT-CLASS-260-75NH .... c 27 N78-17213 *
US-PATENT-CLASS-260-75NK .... c 27 N78-17213 *
US-PATENT-CLASS-260-75NT .... c 27 N78-17213 *
US-PATENT-CLASS-260-77.5AM c 27 N78-17213 *
US-PATENT-CLASS-260-77.5AN . c 27 N78-17213 *
US-PATENT-CLASS-260-77.5AP . c 06 N72-27144 *
US-PATENT-CLASS-260-77.5AP . c 06 N73-33076 *
US-PATENT-CLASS-260-77.5AP . c 27 N77-31308 *
US-PATENT-CLASS-260-77.5AP . c 27 N78-17213 *
US-PATENT-CLASS-260-77.5AT . c 27 N78-17213 *
US-PATENT-CLASS-260-77.55P . c 27 N78-17213 *
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30099 *
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30100 *
US-PATENT-CLASS-260-77.5 ..... c 06 N73-30103 *
US-PATENT-CLASS-260-78.41 .... c 27 N78-31232 *
US-PATENT-CLASS-260-78TF .... c 06 N73-27980 *
US-PATENT-CLASS-260-78TF .... c 27 N74-23125 *
US-PATENT-CLASS-260-78TF .... c 23 N75-30256 *
US-PATENT-CLASS-260-78TF .... c 23 N76-15268 *
US-PATENT-CLASS-260-78TF .... c 27 N78-32261 *
US-PATENT-CLASS-260-78UA .... c 06 N73-27980 *
US-PATENT-CLASS-260-78 ..... c 06 N71-11235 *
US-PATENT-CLASS-260-78 ..... c 06 N71-11238 *
US-PATENT-CLASS-260-830S ..... c 15 N79-26100 *
US-PATENT-CLASS-260-85.5 ..... c 06 N71-23500 *
US-PATENT-CLASS-260-858 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-877 ..... c 06 N72-22107 *
US-PATENT-CLASS-260-879 ..... c 27 N76-16228 *
US-PATENT-CLASS-260-886 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-8900 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-895 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-898 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-900 ..... c 27 N76-16228 *
US-PATENT-CLASS-260-901 ..... c 27 N81-14076 *
US-PATENT-CLASS-260-92.1 ..... c 06 N72-25150 *
US-PATENT-CLASS-260-92.1 ..... c 06 N72-25152 *
US-PATENT-CLASS-260-92.1 ..... c 27 N76-16228 *
US-PATENT-CLASS-260-92.1 ..... c 27 N76-24405 *
US-PATENT-CLASS-260-926 ..... c 27 N80-10358 *
US-PATENT-CLASS-260-927-N ... c 23 N86-19376 *
US-PATENT-CLASS-260-93.5A ... c 06 N73-32029 *
US-PATENT-CLASS-260-93.5S .... c 06 N73-32029 *
US-PATENT-CLASS-260-94.2M ... c 06 N73-32029 *
US-PATENT-CLASS-260-94.2R ... c 06 N73-32029 *
US-PATENT-CLASS-260-94.7R ... c 06 N73-32029 *
US-PATENT-CLASS-260-94.8 ..... c 27 N73-22710 *
US-PATENT-CLASS-260-959 ..... c 27 N78-32256 *
US-PATENT-CLASS-260-96D ..... c 28 N81-15119 *
US-PATENT-CLASS-261-DIG.75 . c 34 N77-24423 *
US-PATENT-CLASS-261-118 ..... c 31 N80-18231 *
US-PATENT-CLASS-261-123 ..... c 34 N77-24423 *
US-PATENT-CLASS-261-145 ..... c 28 N72-22772 *
US-PATENT-CLASS-261-28 ..... c 07 N81-29129 *
US-PATENT-CLASS-261-78A ..... c 35 N86-29174 *
US-PATENT-CLASS-261-79A ..... c 54 N81-24724 *
US-PATENT-CLASS-261-83 ..... c 51 N91-30667 *
US-PATENT-CLASS-263-48 ..... c 15 N69-27483 * #
US-PATENT-CLASS-264-DIG.36 . c 18 N73-14584 *
US-PATENT-CLASS-264-DIG.44 . c 15 N72-16329 *
US-PATENT-CLASS-264-DIG.64 . c 27 N88-23894 *
US-PATENT-CLASS-264-DIG.65 . c 27 N85-20124 *
US-PATENT-CLASS-264-DIG-59 . c 27 N89-29539 *
US-PATENT-CLASS-264-022 ..... c 27 N90-21198 *
US-PATENT-CLASS-264-102 ..... c 15 N71-10672 *
US-PATENT-CLASS-264-102 ..... c 15 N73-12489 *
US-PATENT-CLASS-264-102 ..... c 31 N74-14133 *
US-PATENT-CLASS-264-102 ..... c 31 N74-18124 *
US-PATENT-CLASS-264-102 ..... c 37 N76-24575 *
US-PATENT-CLASS-264-102 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-104 ..... c 05 N72-25120 *
US-PATENT-CLASS-264-104 ..... c 27 N81-24257 *
US-PATENT-CLASS-264-104 ..... c 23 N81-29160 *
US-PATENT-CLASS-264-104 ..... c 25 N83-13188 *
US-PATENT-CLASS-264-105 ..... c 27 N81-24257 *
US-PATENT-CLASS-264-111 ..... c 17 N71-29137 *
US-PATENT-CLASS-264-112 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-114 ..... c 31 N90-19425 *
US-PATENT-CLASS-264-118 ..... c 24 N80-26388 *
US-PATENT-CLASS-264-118 ..... c 24 N84-16262 *
US-PATENT-CLASS-264-119 ..... c 24 N80-26388 *
US-PATENT-CLASS-264-11 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-120 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-124 ..... c 24 N80-26388 *
US-PATENT-CLASS-264-129 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-12 ..... c 31 N83-35176 *
US-PATENT-CLASS-264-12 ..... c 31 N91-32240 *
US-PATENT-CLASS-264-130 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-135 ..... c 37 N74-18126 *
US-PATENT-CLASS-264-136 ..... c 37 N74-18126 *
US-PATENT-CLASS-264-136 ..... c 24 N91-25200 *
US-PATENT-CLASS-264-137 ..... c 27 N79-33316 *
US-PATENT-CLASS-264-137 ..... c 27 N81-14078 *
US-PATENT-CLASS-264-137 ..... c 27 N81-29229 *
US-PATENT-CLASS-264-137 ..... c 27 N83-34041 *
US-PATENT-CLASS-264-137 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-145 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-151 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-152 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-157 ..... c 24 N78-17150 *
US-PATENT-CLASS-264-161 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-175 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-184 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-184 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-1 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-204 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-211.15 .. c 37 N91-27562 *
US-PATENT-CLASS-264-211.16 .. c 37 N91-27562 *
US-PATENT-CLASS-264-211.17 .. c 37 N91-27562 *
US-PATENT-CLASS-264-211 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-212 ..... c 27 N80-32516 *
US-PATENT-CLASS-264-212 ..... c 27 N86-31727 *
US-PATENT-CLASS-264-216 ..... c 25 N82-21268 *
US-PATENT-CLASS-264-216 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-217 ..... c 25 N75-12087 *
US-PATENT-CLASS-264-219 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-220 ..... c 27 N82-28440 *
US-PATENT-CLASS-264-221 ..... c 15 N72-16329 *
US-PATENT-CLASS-264-225 ..... c 15 N72-16329 *
US-PATENT-CLASS-264-227 ..... c 15 N72-16329 *
US-PATENT-CLASS-264-229 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-22 ..... c 15 N72-20446 *
US-PATENT-CLASS-264-22 ..... c 14 N72-22439 *
US-PATENT-CLASS-264-22 ..... c 25 N75-12087 *
US-PATENT-CLASS-264-22 ..... c 27 N80-32516 *
US-PATENT-CLASS-264-22 ..... c 27 N82-28440 *
US-PATENT-CLASS-264-230 ..... c 37 N82-24491 *
US-PATENT-CLASS-264-231 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-234 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-236 ..... c 27 N78-32262 *
US-PATENT-CLASS-264-236 ..... c 15 N79-26100 *
US-PATENT-CLASS-264-236 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-236 ..... c 27 N86-31727 *
US-PATENT-CLASS-264-236 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-236 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-23 ..... c 71 N78-10837 *
US-PATENT-CLASS-264-23 ..... c 31 N81-15154 *
US-PATENT-CLASS-264-24 ..... c 31 N81-33319 *
US-PATENT-CLASS-264-24 ..... c 31 N83-35176 *
US-PATENT-CLASS-264-257 ..... c 37 N74-18126 *
US-PATENT-CLASS-264-257 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-257 ..... c 24 N91-25199 *
US-PATENT-CLASS-264-257 ..... c 24 N91-25200 *
US-PATENT-CLASS-264-258 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-258 ..... c 27 N83-34041 *
US-PATENT-CLASS-264-258 ..... c 27 N85-20124 *
US-PATENT-CLASS-264-259 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-261 ..... c 24 N91-25199 *
US-PATENT-CLASS-264-267 ..... c 37 N76-24575 *
US-PATENT-CLASS-264-27 ..... c 26 N71-17818 *
US-PATENT-CLASS-264-28 ..... c 15 N73-12489 *
US-PATENT-CLASS-264-28 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-291 ..... c 74 N87-28416 *
US-PATENT-CLASS-264-294 ..... c 31 N74-13177 *
US-PATENT-CLASS-264-3R ..... c 28 N77-10213 *
US-PATENT-CLASS-264-3R ..... c 20 N77-17143 *
US-PATENT-CLASS-264-304 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-305 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-308 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-310 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-311 ..... c 24 N81-29163 *
US-PATENT-CLASS-264-311 ..... c 31 N90-19425 *
US-PATENT-CLASS-264-318 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-331.12 .. c 27 N85-20124 *
US-PATENT-CLASS-264-331.12 .. c 24 N91-25200 *
US-PATENT-CLASS-264-331.19 .. c 27 N85-20124 *
US-PATENT-CLASS-264-331.46 .. c 27 N83-34041 *
US-PATENT-CLASS-264-331 ..... c 27 N76-16230 *
US-PATENT-CLASS-264-332 ..... c 37 N81-25371 *
US-PATENT-CLASS-264-332 ..... c 27 N87-28656 *
US-PATENT-CLASS-264-334 ..... c 37 N76-31524 *
US-PATENT-CLASS-264-33 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-342R .... c 37 N82-24491 *
US-PATENT-CLASS-264-345 ..... c 71 N78-10837 *
US-PATENT-CLASS-264-345 ..... c 37 N91-27562 *
US-PATENT-CLASS-264-347 ..... c 27 N86-29039 *
US-PATENT-CLASS-264-347 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-34 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-35 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-36 ..... c 15 N73-12489 *
US-PATENT-CLASS-264-36 ..... c 32 N74-27612 *
US-PATENT-CLASS-264-3 ..... c 28 N71-26779 *
US-PATENT-CLASS-264-40.1 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-40.1 ..... c 27 N90-23544 *
US-PATENT-CLASS-264-40.4 ..... c 35 N80-18357 *
US-PATENT-CLASS-264-40.5 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-40.6 ..... c 27 N89-29539 *
US-PATENT-CLASS-264-40 ..... c 15 N73-12489 *
US-PATENT-CLASS-264-41 ..... c 25 N81-19244 *
US-PATENT-CLASS-264-41 ..... c 51 N84-28361 *
US-PATENT-CLASS-264-43 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-453 ..... c 25 N82-21268 *
US-PATENT-CLASS-264-4 ..... c 34 N90-23700 *
US-PATENT-CLASS-264-50 ..... c 27 N88-23894 *
US-PATENT-CLASS-264-510 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-516 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-53 ..... c 25 N82-21268 *
US-PATENT-CLASS-264-59 ..... c 24 N84-16262 *
US-PATENT-CLASS-264-5 ..... c 31 N81-33319 *
US-PATENT-CLASS-264-5 ..... c 27 N82-28442 *
US-PATENT-CLASS-264-5 ..... c 31 N83-31896 *
US-PATENT-CLASS-264-5 ..... c 31 N83-35176 *
US-PATENT-CLASS-264-5 ..... c 26 N86-32551 *
US-PATENT-CLASS-264-5 ..... c 31 N91-32240 *
US-PATENT-CLASS-264-60 ..... c 27 N76-22376 *
US-PATENT-CLASS-264-60 ..... c 27 N79-14213 *
US-PATENT-CLASS-264-60 ..... c 24 N84-16262 *
US-PATENT-CLASS-264-60 ..... c 27 N87-28656 *
US-PATENT-CLASS-264-63 ..... c 27 N76-22376 *
US-PATENT-CLASS-264-63 ..... c 27 N87-28656 *
US-PATENT-CLASS-264-65 ..... c 18 N73-14584 *
US-PATENT-CLASS-264-66 ..... c 27 N76-22376 *
US-PATENT-CLASS-264-6 ..... c 27 N90-23566 *
US-PATENT-CLASS-264-70 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-71 ..... c 44 N79-24432 *
US-PATENT-CLASS-264-90 ..... c 24 N78-17150 *
US-PATENT-CLASS-264-92 ..... c 15 N71-17803 *
US-PATENT-CLASS-264-92 ..... c 15 N72-24522 *
US-PATENT-CLASS-264-9 ..... c 31 N81-33319 *
US-PATENT-CLASS-264-9 ..... c 31 N83-31896 *
US-PATENT-CLASS-266-119 ..... c 26 N80-28492 *
US-PATENT-CLASS-266-19 ..... c 15 N70-33382 *
US-PATENT-CLASS-266-249 ..... c 26 N80-28492 *
US-PATENT-CLASS-266-24 ..... c 17 N72-28535 *
US-PATENT-CLASS-266-274 ..... c 26 N80-28492 *
US-PATENT-CLASS-267-150 ..... c 37 N85-34401 *
US-PATENT-CLASS-267-166 ..... c 34 N74-18552 *
US-PATENT-CLASS-267-1 ..... c 15 N69-27504 * #
US-PATENT-CLASS-267-1 ..... c 15 N70-38225 *
US-PATENT-CLASS-267-64 ..... c 15 N71-21530 *
US-PATENT-CLASS-267-8R ..... c 37 N85-34401 *
US-PATENT-CLASS-269-147 ..... c 35 N88-24927 *
US-PATENT-CLASS-269-152 ..... c 18 N83-29303 *
US-PATENT-CLASS-269-153 ..... c 44 N79-19447 *
US-PATENT-CLASS-269-156 ..... c 37 N80-14398 *
US-PATENT-CLASS-269-21 ..... c 37 N76-21554 *
US-PATENT-CLASS-269-21 ..... c 37 N78-17383 *
US-PATENT-CLASS-269-21 ..... c 37 N78-27423 *
US-PATENT-CLASS-269-21 ..... c 76 N80-18951 *
US-PATENT-CLASS-269-21 ..... c 37 N81-33482 *
US-PATENT-CLASS-269-21 ..... c 37 N91-21545 *
US-PATENT-CLASS-269-224 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-242 ..... c 18 N83-29303 *
US-PATENT-CLASS-269-242 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-244 ..... c 18 N83-29303 *
US-PATENT-CLASS-269-244 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-246 ..... c 35 N88-24927 *
US-PATENT-CLASS-269-252 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-266 ..... c 37 N78-27423 *
US-PATENT-CLASS-269-267 ..... c 37 N89-13785 *
US-PATENT-CLASS-269-285 ..... c 37 N84-28083 *
US-PATENT-CLASS-269-287 ..... c 37 N80-23655 *
US-PATENT-CLASS-269-3 ..... c 37 N84-12491 *
US-PATENT-CLASS-269-43 ..... c 37 N88-14360 *
US-PATENT-CLASS-269-48.1 ..... c 39 N74-13131 *
US-PATENT-CLASS-269-71 ..... c 37 N88-14360 *
US-PATENT-CLASS-269-73 ..... c 37 N88-14360 *
US-PATENT-CLASS-27-498 ..... c 15 N73-28515 *
US-PATENT-CLASS-272-DIG.1 .... c 05 N73-32014 *
US-PATENT-CLASS-272-DIG.4 .... c 05 N73-32014 *
US-PATENT-CLASS-272-DIG.5 .... c 05 N73-32014 *
US-PATENT-CLASS-272-1R ..... c 09 N75-15662 *
US-PATENT-CLASS-272-57A ..... c 09 N75-15662 *
US-PATENT-CLASS-272-70 ..... c 05 N71-28619 *
US-PATENT-CLASS-272-73 ..... c 14 N73-27377 *
US-PATENT-CLASS-272-73 ..... c 05 N73-27941 *
US-PATENT-CLASS-272-73 ..... c 37 N74-18127 *
US-PATENT-CLASS-272-79C ..... c 05 N73-32014 *
US-PATENT-CLASS-272-80 ..... c 37 N74-18127 *
US-PATENT-CLASS-273-1E ..... c 05 N73-13114 *
US-PATENT-CLASS-273-240 ..... c 31 N83-34073 *
US-PATENT-CLASS-274-4R ..... c 09 N72-11224 *
US-PATENT-CLASS-277-105 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-116.6 .... c 37 N84-11497 *
US-PATENT-CLASS-277-124 ..... c 37 N84-11497 *
US-PATENT-CLASS-277-134 ..... c 37 N75-21631 *
US-PATENT-CLASS-277-134 ..... c 07 N78-25090 *

US-PATENT-CLASS-277-135 ..... c 37 N85-29284 *
US-PATENT-CLASS-277-13 ..... c 15 N71-26294 *
US-PATENT-CLASS-277-153 ..... c 37 N80-28711 *
US-PATENT-CLASS-277-153 ..... c 37 N81-26447 *
US-PATENT-CLASS-277-157 ..... c 37 N91-27560 *
US-PATENT-CLASS-277-158 ..... c 37 N90-23751 *
US-PATENT-CLASS-277-164 ..... c 37 N84-11497 *
US-PATENT-CLASS-277-177 ..... c 37 N84-11497 *
US-PATENT-CLASS-277-181 ..... c 37 N81-15363 *
US-PATENT-CLASS-277-189 ..... c 37 N82-16408 *
US-PATENT-CLASS-277-190 ..... c 37 N84-11497 *
US-PATENT-CLASS-277-192 ..... c 37 N79-22474 *
US-PATENT-CLASS-277-193 ..... c 37 N80-28711 *
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US-PATENT-CLASS-277-204 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-224 ..... c 37 N80-28711 *
US-PATENT-CLASS-277-226 ..... c 37 N91-27560 *
US-PATENT-CLASS-277-229 ..... c 37 N81-15363 *
US-PATENT-CLASS-277-229 ..... c 37 N91-27560 *
US-PATENT-CLASS-277-25 ..... c 15 N69-21362 * #
US-PATENT-CLASS-277-25 ..... c 15 N71-19570 *
US-PATENT-CLASS-277-25 ..... c 15 N72-29488 *
US-PATENT-CLASS-277-25 ..... c 37 N74-10474 *
US-PATENT-CLASS-277-25 ..... c 07 N78-25090 *
US-PATENT-CLASS-277-27 ..... c 15 N72-29488 *
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US-PATENT-CLASS-277-27 ..... c 37 N82-12442 *
US-PATENT-CLASS-277-2 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-34 ..... c 37 N90-23751 *
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US-PATENT-CLASS-277-40 ..... c 37 N75-21631 *
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US-PATENT-CLASS-277-59 ..... c 37 N82-24490 *
US-PATENT-CLASS-277-62 ..... c 37 N79-22475 *
US-PATENT-CLASS-277-72R ..... c 37 N82-24490 *
US-PATENT-CLASS-277-74 ..... c 15 N72-29488 *
US-PATENT-CLASS-277-74 ..... c 37 N76-22541 *
US-PATENT-CLASS-277-80 ..... c 37 N85-29284 *
US-PATENT-CLASS-277-81R ..... c 37 N82-16408 *
US-PATENT-CLASS-277-91 ..... c 37 N74-15125 *
US-PATENT-CLASS-277-93R ..... c 37 N76-22541 *
US-PATENT-CLASS-277-93R ..... c 37 N82-12442 *
US-PATENT-CLASS-277-96.1 ..... c 37 N79-22475 *
US-PATENT-CLASS-277-96 ..... c 37 N74-10474 *
US-PATENT-CLASS-277-96 ..... c 37 N81-24442 *
US-PATENT-CLASS-279-1B ..... c 37 N75-33395 *
US-PATENT-CLASS-279-107 ..... c 37 N75-33395 *
US-PATENT-CLASS-279-3 ..... c 37 N78-17383 *
US-PATENT-CLASS-279-89 ..... c 37 N75-33395 *
US-PATENT-CLASS-280-150SB .. c 05 N75-25915 *
US-PATENT-CLASS-280-432 ..... c 37 N77-14477 *
US-PATENT-CLASS-280-47.11 .... c 85 N87-21755 *
US-PATENT-CLASS-280-677 ..... c 37 N90-17153 *
US-PATENT-CLASS-280-682 ..... c 37 N90-17153 *
US-PATENT-CLASS-280-805 ..... c 37 N82-18601 *
US-PATENT-CLASS-285-DIG.21 . c 15 N72-25450 *
US-PATENT-CLASS-285-DIG.21 . c 33 N73-26958 *
US-PATENT-CLASS-285-107 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-108 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-109 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-114 ..... c 37 N75-19686 *
US-PATENT-CLASS-285-133.1 .... c 37 N89-13786 *
US-PATENT-CLASS-285-137.1 .... c 35 N87-28884 *
US-PATENT-CLASS-285-159 ..... c 37 N82-24494 *
US-PATENT-CLASS-285-168 ..... c 54 N86-28619 *
US-PATENT-CLASS-285-168 ..... c 54 N86-28620 *
US-PATENT-CLASS-285-168 ..... c 54 N86-29507 * #
US-PATENT-CLASS-285-184 ..... c 54 N86-29507 * #
US-PATENT-CLASS-285-18 ..... c 15 N72-20445 *
US-PATENT-CLASS-285-192 ..... c 20 N78-24275 *
US-PATENT-CLASS-285-226 ..... c 37 N75-19686 *
US-PATENT-CLASS-285-226 ..... c 37 N76-14460 *
US-PATENT-CLASS-285-226 ..... c 18 N89-28553 *
US-PATENT-CLASS-285-227 ..... c 54 N86-29507 * #
US-PATENT-CLASS-285-235 ..... c 54 N78-31735 *
US-PATENT-CLASS-285-235 ..... c 54 N79-24651 *
US-PATENT-CLASS-285-24 ..... c 15 N71-10782 *
US-PATENT-CLASS-285-265 ..... c 37 N76-14460 *
US-PATENT-CLASS-285-27 ..... c 15 N70-41808 *
US-PATENT-CLASS-285-27 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-302 ..... c 18 N89-25266 *
US-PATENT-CLASS-285-305 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-314 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-316 ..... c 15 N72-25450 *
US-PATENT-CLASS-285-316 ..... c 33 N73-26958 *
US-PATENT-CLASS-285-317 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-31 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-326 ..... c 37 N79-11402 *
US-PATENT-CLASS-285-327 ..... c 37 N91-14610 *
US-PATENT-CLASS-285-331 ..... c 15 N70-41629 *
US-PATENT-CLASS-285-33 ..... c 15 N72-25450 *
US-PATENT-CLASS-285-345 ..... c 15 N72-20445 *
US-PATENT-CLASS-285-351 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-359 ..... c 37 N79-11402 *
US-PATENT-CLASS-285-361 ..... c 37 N91-14613 *
US-PATENT-CLASS-285-373 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-37 ..... c 37 N82-24490 *
US-PATENT-CLASS-285-38 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-39 ..... c 37 N89-13786 *
US-PATENT-CLASS-285-3 ..... c 15 N69-27490 * #
US-PATENT-CLASS-285-3 ..... c 15 N72-25450 *
US-PATENT-CLASS-285-401 ..... c 37 N82-24494 *
US-PATENT-CLASS-285-406 ..... c 15 N71-24903 *
US-PATENT-CLASS-285-410 ..... c 05 N72-11085 *
US-PATENT-CLASS-285-421 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-45 ..... c 15 N71-28937 *
US-PATENT-CLASS-285-81 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-82 ..... c 37 N91-14613 *
US-PATENT-CLASS-285-85 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-86 ..... c 18 N87-27713 *
US-PATENT-CLASS-285-89 ..... c 37 N82-24494 *
US-PATENT-CLASS-285-901 ..... c 35 N87-28884 *
US-PATENT-CLASS-285-91 ..... c 37 N87-22977 *
US-PATENT-CLASS-285-97 ..... c 37 N89-13786 *
US-PATENT-CLASS-287-119 ..... c 15 N70-41829 *
US-PATENT-CLASS-287-189.365 .. c 15 N71-26312 *
US-PATENT-CLASS-287-189.36 .. c 15 N71-10799 *
US-PATENT-CLASS-287-54A ..... c 11 N72-25287 *
US-PATENT-CLASS-287-85R ..... c 15 N73-12488 *
US-PATENT-CLASS-287-92 ..... c 31 N73-32749 *
US-PATENT-CLASS-29-DIG.1 ..... c 44 N81-14389 *
US-PATENT-CLASS-29-DIG.24 .... c 24 N75-33181 *
US-PATENT-CLASS-29-DIG.35 .... c 37 N77-23482 *
US-PATENT-CLASS-29-DIG.39 .... c 24 N75-33181 *
US-PATENT-CLASS-29-125 ..... c 37 N79-10422 *
US-PATENT-CLASS-29-148.4A ... c 37 N74-15128 *
US-PATENT-CLASS-29-148.4B ... c 37 N74-15128 *
US-PATENT-CLASS-29-148.4 ..... c 15 N71-16052 *
US-PATENT-CLASS-29-148.4 ..... c 15 N71-17688 *
US-PATENT-CLASS-29-155.55 .... c 15 N71-15986 *
US-PATENT-CLASS-29-156.5-R .. c 24 N87-27742 * #
US-PATENT-CLASS-29-156.8R ... c 37 N78-24544 *
US-PATENT-CLASS-29-157.3H ... c 74 N83-19596 *
US-PATENT-CLASS-29-157.3R ... c 34 N74-18552 *
US-PATENT-CLASS-29-157.3 ..... c 28 N70-41818 *
US-PATENT-CLASS-29-157 ..... c 28 N71-15658 *
US-PATENT-CLASS-29-182.1 ..... c 18 N71-23710 *
US-PATENT-CLASS-29-182.2 ..... c 17 N71-23046 *
US-PATENT-CLASS-29-182.2 ..... c 37 N75-26371 *
US-PATENT-CLASS-29-182.5 ..... c 17 N72-28536 *
US-PATENT-CLASS-29-182.5 ..... c 37 N75-26371 *
US-PATENT-CLASS-29-182.5 ..... c 27 N76-15311 *
US-PATENT-CLASS-29-182.5 ..... c 27 N77-13217 *
US-PATENT-CLASS-29-182 ..... c 37 N74-13179 *
US-PATENT-CLASS-29-182 ..... c 34 N76-27515 *
US-PATENT-CLASS-29-183.5 ..... c 17 N70-38490 *
US-PATENT-CLASS-29-193 ..... c 34 N76-27515 *
US-PATENT-CLASS-29-194 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-194 ..... c 44 N76-14595 *
US-PATENT-CLASS-29-195A ..... c 27 N76-16229 *
US-PATENT-CLASS-29-195Y ..... c 14 N73-32320 *
US-PATENT-CLASS-29-195 ..... c 44 N76-14595 *
US-PATENT-CLASS-29-196.2 ..... c 17 N73-32414 *
US-PATENT-CLASS-29-196.2 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-196.6 ..... c 17 N73-32414 *
US-PATENT-CLASS-29-196.6 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-196.6 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-197 ..... c 17 N73-32414 *
US-PATENT-CLASS-29-197 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-197 ..... c 26 N75-19408 *
US-PATENT-CLASS-29-197 ..... c 44 N76-14595 *
US-PATENT-CLASS-29-198 ..... c 17 N70-33288 *
US-PATENT-CLASS-29-198 ..... c 09 N72-25259 *
US-PATENT-CLASS-29-203H ..... c 37 N74-32918 *
US-PATENT-CLASS-29-203MW .. c 33 N74-26977 *
US-PATENT-CLASS-29-203V ..... c 15 N73-14468 *
US-PATENT-CLASS-29-23.5 ..... c 37 N78-24544 *
US-PATENT-CLASS-29-234 ..... c 15 N70-36901 *
US-PATENT-CLASS-29-244 ..... c 37 N78-24544 *
US-PATENT-CLASS-29-25.14 ..... c 05 N72-25121 *
US-PATENT-CLASS-29-25.14 ..... c 35 N82-24471 *
US-PATENT-CLASS-29-25.18 ..... c 09 N71-26678 *
US-PATENT-CLASS-29-25.18 ..... c 05 N72-25121 *
US-PATENT-CLASS-29-25.18 ..... c 20 N75-18310 *
US-PATENT-CLASS-29-25.18 ..... c 20 N76-21276 *
US-PATENT-CLASS-29-25.35 ..... c 35 N80-20559 *
US-PATENT-CLASS-29-25.42 ..... c 26 N72-28762 *
US-PATENT-CLASS-29-252 ..... c 37 N78-24544 *
US-PATENT-CLASS-29-26A ..... c 37 N75-33395 *
US-PATENT-CLASS-29-267 ..... c 60 N82-24839 *
US-PATENT-CLASS-29-268 ..... c 37 N74-32918 *
US-PATENT-CLASS-29-271 ..... c 15 N70-41371 *
US-PATENT-CLASS-29-278R ..... c 15 N71-29133 *
US-PATENT-CLASS-29-400 ..... c 05 N71-12345 *
US-PATENT-CLASS-29-402.16 .... c 37 N86-32736 * #
US-PATENT-CLASS-29-412 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-419 ..... c 24 N75-28135 *
US-PATENT-CLASS-29-420.5 ..... c 26 N74-10521 *
US-PATENT-CLASS-29-420.5 ..... c 37 N74-13179 *
US-PATENT-CLASS-29-420.5 ..... c 37 N75-26371 *
US-PATENT-CLASS-29-420 ..... c 24 N75-13032 *
US-PATENT-CLASS-29-421E ..... c 37 N79-13364 *
US-PATENT-CLASS-29-421 ..... c 15 N71-29018 *
US-PATENT-CLASS-29-421 ..... c 14 N72-22439 *
US-PATENT-CLASS-29-421 ..... c 37 N76-14461 *
US-PATENT-CLASS-29-423 ..... c 15 N70-36409 *
US-PATENT-CLASS-29-423 ..... c 31 N74-21059 *
US-PATENT-CLASS-29-423 ..... c 52 N84-28389 *
US-PATENT-CLASS-29-426 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-428 ..... c 15 N71-17686 *
US-PATENT-CLASS-29-432 ..... c 37 N76-19437 *
US-PATENT-CLASS-29-433 ..... c 37 N76-19437 *
US-PATENT-CLASS-29-446 ..... c 37 N83-36482 *
US-PATENT-CLASS-29-447 ..... c 37 N77-23482 *
US-PATENT-CLASS-29-451 ..... c 52 N84-28389 *
US-PATENT-CLASS-29-452 ..... c 15 N73-30457 *
US-PATENT-CLASS-29-458 ..... c 26 N83-10170 *
US-PATENT-CLASS-29-460 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-460 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-463 ..... c 07 N78-33101 *
US-PATENT-CLASS-29-467 ..... c 39 N76-31562 *
US-PATENT-CLASS-29-470.1 ..... c 37 N74-21057 *
US-PATENT-CLASS-29-470.1 ..... c 37 N75-12326 *
US-PATENT-CLASS-29-472.7 ..... c 37 N75-15992 *
US-PATENT-CLASS-29-472.9 ..... c 15 N69-39786 * #
US-PATENT-CLASS-29-472.9 ..... c 26 N71-16037 *
US-PATENT-CLASS-29-472.9 ..... c 15 N72-22492 *
US-PATENT-CLASS-29-473.1 ..... c 15 N72-22487 *
US-PATENT-CLASS-29-473.1 ..... c 15 N72-22492 *
US-PATENT-CLASS-29-473.1 ..... c 37 N75-15992 *
US-PATENT-CLASS-29-475 ..... c 37 N75-12326 *
US-PATENT-CLASS-29-482 ..... c 05 N72-25121 *
US-PATENT-CLASS-29-482 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-487 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-487 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-488 ..... c 15 N70-33311 *
US-PATENT-CLASS-29-488 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-492 ..... c 15 N71-20443 *
US-PATENT-CLASS-29-492 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-494 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-494 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-494 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-495 ..... c 15 N71-21078 *
US-PATENT-CLASS-29-497.5 ..... c 15 N73-28515 *
US-PATENT-CLASS-29-497.5 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-497.5 ..... c 37 N74-11300 *
US-PATENT-CLASS-29-497.5 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-497 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-497 ..... c 15 N73-32358 *
US-PATENT-CLASS-29-497 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-498 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-498 ..... c 15 N73-33383 *
US-PATENT-CLASS-29-498 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-498 ..... c 37 N74-18128 *
US-PATENT-CLASS-29-498 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-502 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-503 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-504 ..... c 37 N74-21055 *
US-PATENT-CLASS-29-504 ..... c 37 N75-13261 *
US-PATENT-CLASS-29-517 ..... c 15 N71-17650 *
US-PATENT-CLASS-29-521 ..... c 26 N83-10170 *
US-PATENT-CLASS-29-526 ..... c 37 N76-19437 *
US-PATENT-CLASS-29-526 ..... c 39 N76-31562 *
US-PATENT-CLASS-29-527.2 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-527.2 ..... c 15 N73-32360 *
US-PATENT-CLASS-29-527.2 ..... c 37 N74-11301 *
US-PATENT-CLASS-29-527.2 ..... c 24 N75-33181 *
US-PATENT-CLASS-29-527.2 ..... c 24 N77-19171 *
US-PATENT-CLASS-29-558 ..... c 37 N91-32508 *
US-PATENT-CLASS-29-568 ..... c 37 N91-31656 *
US-PATENT-CLASS-29-57-4 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-570 ..... c 26 N72-28761 *
US-PATENT-CLASS-29-571 ..... c 35 N75-13213 *
US-PATENT-CLASS-29-571 ..... c 33 N78-27326 *
US-PATENT-CLASS-29-571 ..... c 33 N81-26360 *
US-PATENT-CLASS-29-572 ..... c 09 N71-23027 *
US-PATENT-CLASS-29-572 ..... c 03 N71-24681 *
US-PATENT-CLASS-29-572 ..... c 03 N72-22041 *
US-PATENT-CLASS-29-572 ..... c 44 N74-14784 *
US-PATENT-CLASS-29-572 ..... c 44 N76-14600 *
US-PATENT-CLASS-29-572 ..... c 44 N76-28635 *
US-PATENT-CLASS-29-572 ..... c 44 N77-10635 *
US-PATENT-CLASS-29-572 ..... c 44 N78-24609 *
US-PATENT-CLASS-29-572 ..... c 44 N78-25527 *
US-PATENT-CLASS-29-572 ..... c 44 N78-25528 *
US-PATENT-CLASS-29-572 ..... c 44 N78-25529 *
US-PATENT-CLASS-29-572 ..... c 44 N79-11468 *
US-PATENT-CLASS-29-572 ..... c 44 N79-11472 *
US-PATENT-CLASS-29-572 ..... c 44 N79-17314 *
US-PATENT-CLASS-29-572 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-572 ..... c 44 N79-24431 *

US-PATENT-CLASS-29-572 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-572 ..... c 44 N79-31752 *
US-PATENT-CLASS-29-572 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-572 ..... c 44 N82-28780 *
US-PATENT-CLASS-29-572 ..... c 44 N82-29709 *
US-PATENT-CLASS-29-572 ..... c 44 N83-13579 *
US-PATENT-CLASS-29-572 ..... c 76 N86-20150 *
US-PATENT-CLASS-29-572 ..... c 44 N86-32875 *
US-PATENT-CLASS-29-573 ..... c 14 N73-13417 *
US-PATENT-CLASS-29-575 ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-E ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-J ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576-W ..... c 76 N87-15882 *
US-PATENT-CLASS-29-576B ..... c 44 N86-32875 *
US-PATENT-CLASS-29-576E ..... c 76 N85-30922 *
US-PATENT-CLASS-29-576J ..... c 35 N82-31659 *
US-PATENT-CLASS-29-576J ..... c 76 N85-30922 *
US-PATENT-CLASS-29-576S ..... c 35 N82-31659 *
US-PATENT-CLASS-29-576W ..... c 76 N85-30922 *
US-PATENT-CLASS-29-577 ..... c 44 N79-26475 *
US-PATENT-CLASS-29-578 ..... c 26 N72-17820 *
US-PATENT-CLASS-29-578 ..... c 33 N78-27326 *
US-PATENT-CLASS-29-578 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-578 ..... c 44 N79-26475 *
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US-PATENT-CLASS-29-578 ..... c 76 N85-30922 *
US-PATENT-CLASS-29-578 ..... c 76 N87-15882 *
US-PATENT-CLASS-29-580 ..... c 09 N73-27150 * #
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US-PATENT-CLASS-29-580 ..... c 33 N81-26360 *
US-PATENT-CLASS-29-580 ..... c 35 N87-14671 *
US-PATENT-CLASS-29-588 ..... c 14 N71-27334 *
US-PATENT-CLASS-29-588 ..... c 14 N72-31446 *
US-PATENT-CLASS-29-588 ..... c 44 N74-14784 *
US-PATENT-CLASS-29-588 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-589 ..... c 26 N72-17820 *
US-PATENT-CLASS-29-589 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-589 ..... c 15 N73-14469 *
US-PATENT-CLASS-29-589 ..... c 44 N79-31752 *
US-PATENT-CLASS-29-590 ..... c 09 N72-22199 *
US-PATENT-CLASS-29-591 ..... c 15 N73-14469 *
US-PATENT-CLASS-29-591 ..... c 44 N79-18444 *
US-PATENT-CLASS-29-591 ..... c 35 N87-14671 *
US-PATENT-CLASS-29-592 ..... c 35 N75-13213 *
US-PATENT-CLASS-29-597 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-599 ..... c 15 N72-25447 *
US-PATENT-CLASS-29-599 ..... c 26 N73-26752 *
US-PATENT-CLASS-29-599 ..... c 26 N73-32571 *
US-PATENT-CLASS-29-603 ..... c 08 N71-27210 *
US-PATENT-CLASS-29-604 ..... c 24 N75-13032 *
US-PATENT-CLASS-29-610SG .... c 35 N85-21598 *
US-PATENT-CLASS-29-610 ..... c 24 N75-30260 *
US-PATENT-CLASS-29-613 ..... c 24 N75-30260 *
US-PATENT-CLASS-29-613 ..... c 35 N82-24470 *
US-PATENT-CLASS-29-620 ..... c 35 N82-31659 *
US-PATENT-CLASS-29-622 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-623.5 ..... c 44 N83-32176 *
US-PATENT-CLASS-29-623.5 ..... c 26 N84-22734 *
US-PATENT-CLASS-29-623.5 ..... c 44 N84-28205 *
US-PATENT-CLASS-29-623.5 ..... c 33 N91-27478 *
US-PATENT-CLASS-29-624 ..... c 15 N72-20444 *
US-PATENT-CLASS-29-624 ..... c 14 N73-13417 *
US-PATENT-CLASS-29-627 ..... c 44 N80-14474 *
US-PATENT-CLASS-29-628 ..... c 15 N72-22491 *
US-PATENT-CLASS-29-628 ..... c 09 N72-25261 *
US-PATENT-CLASS-29-628 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-628 ..... c 33 N77-26385 *
US-PATENT-CLASS-29-628 ..... c 44 N78-25528 *
US-PATENT-CLASS-29-629 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-630A ..... c 05 N72-25121 *
US-PATENT-CLASS-29-630A ..... c 09 N73-28083 *
US-PATENT-CLASS-29-630E ..... c 33 N77-26385 *
US-PATENT-CLASS-29-630 ..... c 09 N73-28083 *
US-PATENT-CLASS-29-739 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-764 ..... c 60 N82-24839 *
US-PATENT-CLASS-29-809 ..... c 44 N79-24431 *
US-PATENT-CLASS-29-81C ..... c 75 N78-27913 *
US-PATENT-CLASS-29-81D ..... c 37 N76-18454 *
US-PATENT-CLASS-29-825 ..... c 44 N84-28205 *
US-PATENT-CLASS-29-832 ..... c 44 N81-14389 *
US-PATENT-CLASS-29-888.046 .. c 37 N90-22042 *
US-PATENT-CLASS-290-1-R ..... c 33 N87-23904 *
US-PATENT-CLASS-290-1R ..... c 44 N85-21769 *
US-PATENT-CLASS-290-4R ..... c 44 N85-21769 *
US-PATENT-CLASS-290-40 ..... c 03 N71-11057 *
US-PATENT-CLASS-290-44 ..... c 37 N90-23742 *
US-PATENT-CLASS-290-44 ..... c 05 N91-14345 *
US-PATENT-CLASS-290-52 ..... c 37 N77-32500 *
US-PATENT-CLASS-290-52 ..... c 37 N77-32501 *
US-PATENT-CLASS-290-53 ..... c 44 N80-29834 *
US-PATENT-CLASS-290-55 ..... c 44 N84-23018 *
US-PATENT-CLASS-290-55 ..... c 37 N90-23742 *
US-PATENT-CLASS-290-55 ..... c 05 N91-14345 *
US-PATENT-CLASS-292-DIG.14 . c 37 N75-19685 *
US-PATENT-CLASS-292-DIG.49 . c 37 N87-25582 *
US-PATENT-CLASS-292-108 ..... c 37 N75-19685 *
US-PATENT-CLASS-292-110 ..... c 37 N77-32499 *
US-PATENT-CLASS-292-122 ..... c 37 N75-19685 *
US-PATENT-CLASS-292-201 ..... c 37 N87-25582 *
US-PATENT-CLASS-292-252 ..... c 37 N85-21649 *
US-PATENT-CLASS-292-27 ..... c 37 N90-17154 *
US-PATENT-CLASS-292-34 ..... c 37 N90-17154 *
US-PATENT-CLASS-292-60 ..... c 37 N91-27561 *
US-PATENT-CLASS-292-61 ..... c 37 N91-27561 *
US-PATENT-CLASS-292-64 ..... c 37 N87-25582 *
US-PATENT-CLASS-294-1R ..... c 35 N76-16392 *
US-PATENT-CLASS-294-106 ..... c 37 N81-14320 *
US-PATENT-CLASS-294-106 ..... c 37 N88-23979 * *
US-PATENT-CLASS-294-106 ..... c 37 N90-20408 *
US-PATENT-CLASS-294-106 ..... c 37 N91-14616 *
US-PATENT-CLASS-294-111 ..... c 37 N91-14616 *
US-PATENT-CLASS-294-113 ..... c 37 N80-14398 *
US-PATENT-CLASS-294-113 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-116 ..... c 37 N75-33395 *
US-PATENT-CLASS-294-116 ..... c 37 N82-32731 *
US-PATENT-CLASS-294-119.1 .... c 37 N91-14615 *
US-PATENT-CLASS-294-119.2 .... c 37 N88-23979 *
US-PATENT-CLASS-294-15 ..... c 15 N71-29133 *
US-PATENT-CLASS-294-16 ..... c 37 N88-23979 *
US-PATENT-CLASS-294-19R ..... c 35 N76-16392 *
US-PATENT-CLASS-294-82.26 .... c 37 N91-32498 *
US-PATENT-CLASS-294-83 ..... c 15 N71-24897 *
US-PATENT-CLASS-294-86.33 .... c 37 N75-33395 *
US-PATENT-CLASS-294-86.4 ..... c 37 N90-20408 *
US-PATENT-CLASS-294-86.4 ..... c 37 N91-31656 *
US-PATENT-CLASS-294-86R ..... c 37 N80-14398 *
US-PATENT-CLASS-294-86R ..... c 37 N81-27519 *
US-PATENT-CLASS-294-86R ..... c 18 N83-29303 *
US-PATENT-CLASS-294-88 ..... c 37 N89-13785 *
US-PATENT-CLASS-294-93 ..... c 54 N81-26718 *
US-PATENT-CLASS-296-1S ..... c 85 N82-33288 *
US-PATENT-CLASS-296-1S ..... c 02 N88-14071 *
US-PATENT-CLASS-296-100 ..... c 37 N87-17036 *
US-PATENT-CLASS-296-20 ..... c 85 N87-21755 *
US-PATENT-CLASS-296-24C ..... c 85 N82-33288 *
US-PATENT-CLASS-296-91 ..... c 85 N82-33288 *
US-PATENT-CLASS-297-DIG.5 .... c 03 N84-33394 *
US-PATENT-CLASS-297-216 ..... c 05 N70-35152 *
US-PATENT-CLASS-297-216 ..... c 37 N88-23982 *
US-PATENT-CLASS-297-232 ..... c 05 N72-11085 *
US-PATENT-CLASS-297-385 ..... c 05 N71-12341 *
US-PATENT-CLASS-297-385 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-386 ..... c 15 N73-30460 *
US-PATENT-CLASS-297-388 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-389 ..... c 05 N75-25915 *
US-PATENT-CLASS-297-68 ..... c 05 N71-12343 *
US-PATENT-CLASS-297-68 ..... c 05 N72-11085 *
US-PATENT-CLASS-299-13 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-17 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-1 ..... c 43 N79-26439 *
US-PATENT-CLASS-299-1 ..... c 35 N84-33768 *
US-PATENT-CLASS-299-20 ..... c 43 N81-26509 *
US-PATENT-CLASS-299-67 ..... c 46 N74-23068 *
US-PATENT-CLASS-299-86 ..... c 46 N74-23069 *
US-PATENT-CLASS-3-1.1 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-1.1 ..... c 52 N77-14738 *
US-PATENT-CLASS-3-1.1 ..... c 54 N79-24652 *
US-PATENT-CLASS-3-1.1 ..... c 74 N84-11921 *
US-PATENT-CLASS-3-1.2 ..... c 52 N77-14735 *
US-PATENT-CLASS-3-1.2 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-1.9 ..... c 27 N78-17215 *
US-PATENT-CLASS-3-1.9 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-12.5 ..... c 54 N78-17676 *
US-PATENT-CLASS-3-12.5 ..... c 54 N79-24652 *
US-PATENT-CLASS-3-12 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-12 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-14 ..... c 52 N77-14735 *
US-PATENT-CLASS-3-15 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-1 ..... c 52 N77-25772 *
US-PATENT-CLASS-3-21 ..... c 54 N77-30749 *
US-PATENT-CLASS-3-29 ..... c 52 N78-10686 *
US-PATENT-CLASS-3-2 ..... c 05 N73-32013 *
US-PATENT-CLASS-3-2 ..... c 54 N77-30749 *
US-PATENT-CLASS-3-2 ..... c 52 N79-26772 *
US-PATENT-CLASS-3-6 ..... c 05 N73-32013 *
US-PATENT-CLASS-30-102 ..... c 37 N82-26672 *
US-PATENT-CLASS-30-180 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-188 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-228 ..... c 15 N70-42017 *
US-PATENT-CLASS-30-228 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-249 ..... c 37 N84-28085 *
US-PATENT-CLASS-30-272R ..... c 37 N84-28085 *
US-PATENT-CLASS-30-388 ..... c 37 N91-31655 *
US-PATENT-CLASS-30-90.6 ..... c 37 N79-10419 *
US-PATENT-CLASS-30-92 ..... c 37 N91-31655 *
US-PATENT-CLASS-301-5P ..... c 37 N74-18125 *
US-PATENT-CLASS-301-82 ..... c 33 N79-10339 *
US-PATENT-CLASS-302-66 ..... c 25 N79-11152 *
US-PATENT-CLASS-303-92 ..... c 44 N79-14527 *
US-PATENT-CLASS-305-35EB .... c 11 N73-26238 *
US-PATENT-CLASS-305-36 ..... c 37 N87-17034 *
US-PATENT-CLASS-305-39 ..... c 11 N73-26238 *
US-PATENT-CLASS-305-51 ..... c 37 N87-17034 *
US-PATENT-CLASS-305-58PC .... c 37 N87-17034 *
US-PATENT-CLASS-305-58R ..... c 37 N87-17034 *
US-PATENT-CLASS-307-103 ..... c 09 N72-25262 *
US-PATENT-CLASS-307-104 ..... c 09 N71-24892 *
US-PATENT-CLASS-307-106 ..... c 09 N69-21468 * #
US-PATENT-CLASS-307-106 ..... c 33 N88-24862 *
US-PATENT-CLASS-307-118 ..... c 09 N72-27227 *
US-PATENT-CLASS-307-119 ..... c 33 N79-28415 *
US-PATENT-CLASS-307-126 ..... c 14 N71-27407 *
US-PATENT-CLASS-307-127 ..... c 33 N74-14956 *
US-PATENT-CLASS-307-131 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-136 ..... c 09 N69-27500 * #
US-PATENT-CLASS-307-141.8 .... c 03 N72-25020 *
US-PATENT-CLASS-307-149 ..... c 09 N71-13486 *
US-PATENT-CLASS-307-149 ..... c 54 N75-12616 *
US-PATENT-CLASS-307-151 ..... c 32 N78-24391 *
US-PATENT-CLASS-307-157 ..... c 16 N73-32391 *
US-PATENT-CLASS-307-18 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-18 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-204 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-205 ..... c 33 N75-14957 *
US-PATENT-CLASS-307-206 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-207 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-207 ..... c 09 N73-13209 *
US-PATENT-CLASS-307-208 ..... c 33 N75-14957 *
US-PATENT-CLASS-307-211 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-215 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-215 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-215 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-215 ..... c 09 N73-13209 *
US-PATENT-CLASS-307-215 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-216 ..... c 08 N71-18751 *
US-PATENT-CLASS-307-219 ..... c 35 N75-30504 *
US-PATENT-CLASS-307-219 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-220 ..... c 10 N73-26229 *
US-PATENT-CLASS-307-221R .... c 10 N73-20254 *
US-PATENT-CLASS-307-221R .... c 33 N76-14373 *
US-PATENT-CLASS-307-222 ..... c 09 N69-27463 * #
US-PATENT-CLASS-307-222 ..... c 08 N71-29034 *
US-PATENT-CLASS-307-223B .... c 09 N72-22201 *
US-PATENT-CLASS-307-223 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-225R .... c 33 N74-10223 *
US-PATENT-CLASS-307-225R .... c 33 N75-31330 *
US-PATENT-CLASS-307-225R .... c 33 N77-24375 *
US-PATENT-CLASS-307-225R .... c 60 N81-15706 *
US-PATENT-CLASS-307-227 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-227 ..... c 33 N75-19522 *
US-PATENT-CLASS-307-229 ..... c 09 N71-12520 *
US-PATENT-CLASS-307-229 ..... c 09 N72-23173 *
US-PATENT-CLASS-307-229 ..... c 33 N75-18479 *
US-PATENT-CLASS-307-229 ..... c 33 N77-17354 *
US-PATENT-CLASS-307-229 ..... c 33 N78-32339 *
US-PATENT-CLASS-307-230 ..... c 10 N72-16172 *
US-PATENT-CLASS-307-230 ..... c 09 N72-21245 *
US-PATENT-CLASS-307-230 ..... c 09 N73-20232 *
US-PATENT-CLASS-307-230 ..... c 33 N74-32712 *
US-PATENT-CLASS-307-230 ..... c 33 N77-17354 *
US-PATENT-CLASS-307-230 ..... c 33 N78-32339 *
US-PATENT-CLASS-307-231 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-232 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-232 ..... c 33 N79-11313 *
US-PATENT-CLASS-307-233R .... c 32 N79-10262 *
US-PATENT-CLASS-307-233R .... c 33 N81-17348 *
US-PATENT-CLASS-307-233 ..... c 09 N72-25257 *
US-PATENT-CLASS-307-233 ..... c 10 N73-26229 *
US-PATENT-CLASS-307-233 ..... c 33 N77-13315 *
US-PATENT-CLASS-307-234 ..... c 10 N71-23315 *
US-PATENT-CLASS-307-234 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-234 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-235R .... c 33 N75-18479 *
US-PATENT-CLASS-307-235 ..... c 10 N71-19471 *
US-PATENT-CLASS-307-235 ..... c 09 N71-23545 *
US-PATENT-CLASS-307-235 ..... c 10 N71-24862 *
US-PATENT-CLASS-307-237 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-237 ..... c 32 N74-19788 *
US-PATENT-CLASS-307-238 ..... c 33 N75-31331 *
US-PATENT-CLASS-307-238 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-241 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-242 ..... c 10 N73-13235 *
US-PATENT-CLASS-307-243 ..... c 09 N71-12516 *
US-PATENT-CLASS-307-243 ..... c 08 N72-22162 *
US-PATENT-CLASS-307-243 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-246 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-247 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-247 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-251 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-251 ..... c 08 N72-22162 *
US-PATENT-CLASS-307-252F .... c 09 N72-17153 *
US-PATENT-CLASS-307-252J .... c 09 N72-17153 *
US-PATENT-CLASS-307-252J .... c 09 N72-22201 *
US-PATENT-CLASS-307-252K .... c 09 N72-22201 *
US-PATENT-CLASS-307-252L .... c 33 N74-27682 *
US-PATENT-CLASS-307-252N .... c 09 N72-23171 *
US-PATENT-CLASS-307-252Q .... c 33 N74-27682 *
US-PATENT-CLASS-307-252R .... c 09 N72-23171 *

US-PATENT-CLASS-307-252UA .. c 33 N81-27395 *
US-PATENT-CLASS-307-252 ..... c 10 N69-39888 * #
US-PATENT-CLASS-307-252 ..... c 09 N71-12514 *
US-PATENT-CLASS-307-253 ..... c 10 N71-27126 *
US-PATENT-CLASS-307-254 ..... c 10 N71-24799 *
US-PATENT-CLASS-307-254 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-257 ..... c 09 N72-21247 *
US-PATENT-CLASS-307-259 ..... c 09 N72-21247 *
US-PATENT-CLASS-307-259 ..... c 09 N72-23171 *
US-PATENT-CLASS-307-259 ..... c 10 N73-13235 *
US-PATENT-CLASS-307-260 ..... c 09 N71-23311 *
US-PATENT-CLASS-307-260 ..... c 05 N71-23317 *
US-PATENT-CLASS-307-260 ..... c 33 N75-19515 *
US-PATENT-CLASS-307-261 ..... c 09 N71-33109 *
US-PATENT-CLASS-307-261 ..... c 09 N72-25251 *
US-PATENT-CLASS-307-261 ..... c 33 N87-21235 *
US-PATENT-CLASS-307-262 ..... c 10 N72-16172 *
US-PATENT-CLASS-307-262 ..... c 09 N72-22197 *
US-PATENT-CLASS-307-262 ..... c 09 N72-33204 *
US-PATENT-CLASS-307-263 ..... c 09 N71-23270 *
US-PATENT-CLASS-307-263 ..... c 09 N71-28926 *
US-PATENT-CLASS-307-264 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-265 ..... c 09 N69-39987 * #
US-PATENT-CLASS-307-265 ..... c 10 N71-23029 *
US-PATENT-CLASS-307-265 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-265 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-265 ..... c 08 N71-29138 *
US-PATENT-CLASS-307-265 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-265 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-267 ..... c 09 N71-20447 *
US-PATENT-CLASS-307-267 ..... c 33 N74-32711 *
US-PATENT-CLASS-307-267 ..... c 33 N75-18479 *
US-PATENT-CLASS-307-268 ..... c 09 N69-24317 * #
US-PATENT-CLASS-307-269 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-270 ..... c 33 N78-17294 *
US-PATENT-CLASS-307-270 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-271 ..... c 10 N73-32145 *
US-PATENT-CLASS-307-271 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-273 ..... c 10 N71-18723 *
US-PATENT-CLASS-307-273 ..... c 09 N71-27016 *
US-PATENT-CLASS-307-273 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-273 ..... c 10 N71-28860 *
US-PATENT-CLASS-307-273 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-273 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-280 ..... c 33 N77-21314 *
US-PATENT-CLASS-307-284 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-288 ..... c 09 N71-23015 *
US-PATENT-CLASS-307-288 ..... c 09 N71-28468 *
US-PATENT-CLASS-307-288 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-288 ..... c 09 N72-22202 *
US-PATENT-CLASS-307-289 ..... c 10 N71-19547 *
US-PATENT-CLASS-307-28 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-290 ..... c 33 N74-22814 *
US-PATENT-CLASS-307-291 ..... c 60 N81-15706 *
US-PATENT-CLASS-307-294 ..... c 09 N71-29139 *
US-PATENT-CLASS-307-295 ..... c 10 N72-17171 *
US-PATENT-CLASS-307-295 ..... c 10 N72-20223 *
US-PATENT-CLASS-307-295 ..... c 09 N72-21245 *
US-PATENT-CLASS-307-295 ..... c 09 N72-33204 *
US-PATENT-CLASS-307-295 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-295 ..... c 33 N77-13315 *
US-PATENT-CLASS-307-296 ..... c 08 N71-12494 *
US-PATENT-CLASS-307-296 ..... c 07 N71-28430 *
US-PATENT-CLASS-307-297 ..... c 33 N78-17294 *
US-PATENT-CLASS-307-299 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-299 ..... c 26 N72-21701 *
US-PATENT-CLASS-307-29 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-300 ..... c 10 N71-27126 *
US-PATENT-CLASS-307-303 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-304 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-304 ..... c 09 N73-20232 *
US-PATENT-CLASS-307-304 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-305 ..... c 09 N72-23171 *
US-PATENT-CLASS-307-306 ..... c 33 N78-13320 *
US-PATENT-CLASS-307-306 ..... c 33 N81-17348 *
US-PATENT-CLASS-307-308 ..... c 14 N73-28488 *
US-PATENT-CLASS-307-309 ..... c 35 N75-13213 *
US-PATENT-CLASS-307-310 ..... c 09 N73-14214 *
US-PATENT-CLASS-307-311 ..... c 14 N72-18411 *
US-PATENT-CLASS-307-311 ..... c 08 N72-21198 *
US-PATENT-CLASS-307-311 ..... c 09 N73-14214 *
US-PATENT-CLASS-307-313 ..... c 10 N72-20221 *
US-PATENT-CLASS-307-317 ..... c 09 N72-22200 *
US-PATENT-CLASS-307-317 ..... c 09 N72-22201 *
US-PATENT-CLASS-307-31 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-321 ..... c 33 N75-19520 *
US-PATENT-CLASS-307-321 ..... c 33 N75-25041 *
US-PATENT-CLASS-307-322 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-323 ..... c 10 N72-22236 *
US-PATENT-CLASS-307-350 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-352 ..... c 33 N81-27396 *
US-PATENT-CLASS-307-353 ..... c 33 N81-27396 *
US-PATENT-CLASS-307-353 ..... c 32 N91-26438 *
US-PATENT-CLASS-307-354 ..... c 33 N87-21235 *
US-PATENT-CLASS-307-35 ..... c 33 N74-34638 *
US-PATENT-CLASS-307-360 ..... c 33 N78-18308 *
US-PATENT-CLASS-307-38 ..... c 03 N73-31988 *
US-PATENT-CLASS-307-415 ..... c 33 N82-24418 *
US-PATENT-CLASS-307-425 ..... c 36 N87-25567 *
US-PATENT-CLASS-307-490 ..... c 33 N87-22895 *
US-PATENT-CLASS-307-520 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-521 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-529 ..... c 33 N85-29145 *
US-PATENT-CLASS-307-53 ..... c 10 N71-26626 *
US-PATENT-CLASS-307-53 ..... c 33 N78-17296 *
US-PATENT-CLASS-307-566 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-570 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-572 ..... c 33 N86-20672 *
US-PATENT-CLASS-307-63 ..... c 44 N80-14472 *
US-PATENT-CLASS-307-64 ..... c 33 N77-30365 *
US-PATENT-CLASS-307-64 ..... c 44 N85-21769 *
US-PATENT-CLASS-307-64 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-66 ..... c 44 N80-14472 *
US-PATENT-CLASS-307-66 ..... c 44 N85-21769 *
US-PATENT-CLASS-307-66 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-69 ..... c 33 N78-17296 *
US-PATENT-CLASS-307-80 ..... c 44 N87-21410 *
US-PATENT-CLASS-307-81 ..... c 09 N72-17157 *
US-PATENT-CLASS-307-82 ..... c 33 N79-24254 *
US-PATENT-CLASS-307-82 ..... c 33 N85-29147 *
US-PATENT-CLASS-307-83 ..... c 09 N72-25262 *
US-PATENT-CLASS-307-87 ..... c 33 N84-33660 *
US-PATENT-CLASS-307-88.3 ..... c 09 N72-25258 *
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US-PATENT-CLASS-307-88.5 ..... c 09 N70-40272 *
US-PATENT-CLASS-307-88.5 ..... c 09 N70-41675 *
US-PATENT-CLASS-307-88.5 ..... c 10 N70-42032 *
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US-PATENT-CLASS-307-88MP .... c 09 N72-22197 *
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US-PATENT-CLASS-307-88 ..... c 09 N70-38604 *
US-PATENT-CLASS-307-88 ..... c 09 N71-24803 *
US-PATENT-CLASS-307-88 ..... c 09 N71-26000 *
US-PATENT-CLASS-307-92 ..... c 09 N72-27227 *
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US-PATENT-CLASS-308-DIG.8 .... c 24 N79-17916 *
US-PATENT-CLASS-308-DIG.9 .... c 24 N79-17916 *
US-PATENT-CLASS-308-10 ..... c 15 N71-22997 *
US-PATENT-CLASS-308-10 ..... c 15 N72-33476 *
US-PATENT-CLASS-308-10 ..... c 35 N74-18323 *
US-PATENT-CLASS-308-10 ..... c 37 N75-18574 *
US-PATENT-CLASS-308-10 ..... c 37 N76-18459 *
US-PATENT-CLASS-308-10 ..... c 37 N77-17464 *
US-PATENT-CLASS-308-10 ..... c 44 N78-24608 *
US-PATENT-CLASS-308-10 ..... c 37 N78-27424 *
US-PATENT-CLASS-308-10 ..... c 35 N79-26372 *
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US-PATENT-CLASS-308-10 ..... c 37 N83-32067 *
US-PATENT-CLASS-308-10 ..... c 37 N83-34323 *
US-PATENT-CLASS-308-10 ..... c 71 N83-36846 *
US-PATENT-CLASS-308-10 ..... c 37 N85-20337 *
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US-PATENT-CLASS-308-121 ..... c 37 N75-30562 *
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US-PATENT-CLASS-308-160 ..... c 37 N79-10418 *
US-PATENT-CLASS-308-163 ..... c 37 N76-29588 *
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US-PATENT-CLASS-308-172 ..... c 37 N79-10418 *
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US-PATENT-CLASS-308-176 ..... c 15 N71-22982 *
US-PATENT-CLASS-308-177 ..... c 15 N71-29136 *
US-PATENT-CLASS-308-187 ..... c 15 N71-26189 *
US-PATENT-CLASS-308-188 ..... c 15 N73-30458 *
US-PATENT-CLASS-308-188 ..... c 37 N74-21064 *
US-PATENT-CLASS-308-191 ..... c 37 N74-21064 *
US-PATENT-CLASS-308-191 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-193 ..... c 15 N73-30458 *
US-PATENT-CLASS-308-194 ..... c 37 N79-11404 *
US-PATENT-CLASS-308-195 ..... c 15 N72-22490 *
US-PATENT-CLASS-308-195 ..... c 37 N75-31446 *
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US-PATENT-CLASS-308-195 ..... c 37 N77-32501 *
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US-PATENT-CLASS-308-2A ..... c 15 N72-26371 *
US-PATENT-CLASS-308-2A ..... c 15 N73-12488 *
US-PATENT-CLASS-308-2A ..... c 37 N84-12492 *
US-PATENT-CLASS-308-201 ..... c 37 N75-31446 *
US-PATENT-CLASS-308-2 ..... c 15 N71-23812 *
US-PATENT-CLASS-308-35 ..... c 15 N73-32359 *
US-PATENT-CLASS-308-5R ..... c 37 N77-28486 *
US-PATENT-CLASS-308-5R ..... c 37 N79-10418 *
US-PATENT-CLASS-308-5 ..... c 15 N71-10617 *
US-PATENT-CLASS-308-5 ..... c 15 N72-11388 *
US-PATENT-CLASS-308-5 ..... c 15 N72-17451 *
US-PATENT-CLASS-308-72 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-72 ..... c 37 N77-32500 *
US-PATENT-CLASS-308-72 ..... c 37 N79-11404 *
US-PATENT-CLASS-308-73 ..... c 37 N74-21061 *
US-PATENT-CLASS-308-73 ..... c 37 N75-30562 *
US-PATENT-CLASS-308-73 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-73 ..... c 37 N77-28486 *
US-PATENT-CLASS-308-78 ..... c 24 N79-17916 *
US-PATENT-CLASS-308-87R ..... c 24 N79-17916 *
US-PATENT-CLASS-308-9 ..... c 15 N70-34664 *
US-PATENT-CLASS-308-9 ..... c 15 N70-38620 *
US-PATENT-CLASS-308-9 ..... c 15 N70-39896 *
US-PATENT-CLASS-308-9 ..... c 15 N71-20739 *
US-PATENT-CLASS-308-9 ..... c 14 N71-26627 *
US-PATENT-CLASS-308-9 ..... c 15 N72-17451 *
US-PATENT-CLASS-308-9 ..... c 15 N73-32359 *
US-PATENT-CLASS-308-9 ..... c 37 N76-15461 *
US-PATENT-CLASS-308-9 ..... c 37 N77-28486 *
US-PATENT-CLASS-308-9 ..... c 37 N79-10418 *
US-PATENT-CLASS-31-35 ..... c 31 N85-21404 *
US-PATENT-CLASS-310-101 ..... c 15 N71-24696 *
US-PATENT-CLASS-310-10 ..... c 03 N69-39890 * #
US-PATENT-CLASS-310-10 ..... c 09 N71-23443 *
US-PATENT-CLASS-310-10 ..... c 09 N71-24904 *
US-PATENT-CLASS-310-10 ..... c 09 N72-25255 *
US-PATENT-CLASS-310-10 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-111 ..... c 33 N77-26387 *
US-PATENT-CLASS-310-11 ..... c 25 N69-21929 * #
US-PATENT-CLASS-310-11 ..... c 03 N69-39983 * #
US-PATENT-CLASS-310-11 ..... c 03 N70-36803 *
US-PATENT-CLASS-310-11 ..... c 14 N72-22439 *
US-PATENT-CLASS-310-11 ..... c 12 N72-25292 *
US-PATENT-CLASS-310-11 ..... c 35 N74-21018 *
US-PATENT-CLASS-310-11 ..... c 36 N75-32441 *
US-PATENT-CLASS-310-11 ..... c 44 N83-28573 *
US-PATENT-CLASS-310-11 ..... c 27 N91-14489 *
US-PATENT-CLASS-310-12 ..... c 33 N82-24421 *
US-PATENT-CLASS-310-12 ..... c 37 N83-32067 *
US-PATENT-CLASS-310-153 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-154 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-154 ..... c 35 N84-28017 *
US-PATENT-CLASS-310-15 ..... c 09 N72-25255 *
US-PATENT-CLASS-310-15 ..... c 44 N83-28574 *
US-PATENT-CLASS-310-15 ..... c 33 N87-23904 *
US-PATENT-CLASS-310-168 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-168 ..... c 33 N77-26387 *
US-PATENT-CLASS-310-171 ..... c 35 N84-28017 *
US-PATENT-CLASS-310-178 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-20 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-22 ..... c 31 N85-21404 *
US-PATENT-CLASS-310-231 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-310-269 ..... c 44 N78-24608 *
US-PATENT-CLASS-310-26 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-310-300 ..... c 71 N84-23233 *
US-PATENT-CLASS-310-306 ..... c 33 N80-18287 *
US-PATENT-CLASS-310-306 ..... c 44 N83-32175 *
US-PATENT-CLASS-310-306 ..... c 34 N85-29179 *
US-PATENT-CLASS-310-306 ..... c 37 N87-23970 *
US-PATENT-CLASS-310-30 ..... c 44 N80-29834 *
US-PATENT-CLASS-310-30 ..... c 33 N87-23904 *
US-PATENT-CLASS-310-311 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-317 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-319 ..... c 33 N80-23559 *
US-PATENT-CLASS-310-322 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-323 ..... c 71 N91-14808 *
US-PATENT-CLASS-310-324 ..... c 33 N86-20671 *
US-PATENT-CLASS-310-325 ..... c 71 N91-14808 *
US-PATENT-CLASS-310-326 ..... c 38 N79-14398 *
US-PATENT-CLASS-310-327 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-330 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-331 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-332 ..... c 76 N83-34796 *
US-PATENT-CLASS-310-334 ..... c 71 N79-20827 *
US-PATENT-CLASS-310-334 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-334 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-334 ..... c 71 N91-14808 *
US-PATENT-CLASS-310-336 ..... c 38 N79-14398 *
US-PATENT-CLASS-310-338 ..... c 35 N89-14407 *
US-PATENT-CLASS-310-339 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-340 ..... c 76 N91-14872 *
US-PATENT-CLASS-310-360 ..... c 35 N80-20559 *
US-PATENT-CLASS-310-366 ..... c 35 N84-22932 *
US-PATENT-CLASS-310-4A ..... c 37 N77-19458 *
US-PATENT-CLASS-310-4R ..... c 33 N74-27683 *
US-PATENT-CLASS-310-4R ..... c 73 N77-18891 *
US-PATENT-CLASS-310-40 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-42 ..... c 14 N72-22439 *
US-PATENT-CLASS-310-46 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-4 ..... c 09 N69-21313 * #

US-PATENT-CLASS-310-4 ..... c 03 N69-39898 * #
US-PATENT-CLASS-310-4 ..... c 09 N69-39929 * #
US-PATENT-CLASS-310-4 ..... c 03 N70-34134 *
US-PATENT-CLASS-310-4 ..... c 03 N71-11055 *
US-PATENT-CLASS-310-4 ..... c 22 N71-23599 *
US-PATENT-CLASS-310-4 ..... c 09 N71-24807 *
US-PATENT-CLASS-310-4 ..... c 33 N71-27862 *
US-PATENT-CLASS-310-4 ..... c 09 N71-28421 *
US-PATENT-CLASS-310-4 ..... c 09 N72-25260 *
US-PATENT-CLASS-310-4 ..... c 09 N72-27228 *
US-PATENT-CLASS-310-4 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-4 ..... c 36 N75-30524 *
US-PATENT-CLASS-310-4 ..... c 44 N76-16612 *
US-PATENT-CLASS-310-51 ..... c 15 N71-27169 *
US-PATENT-CLASS-310-52 ..... c 20 N75-24837 *
US-PATENT-CLASS-310-54 ..... c 09 N71-20446 *
US-PATENT-CLASS-310-5 ..... c 03 N70-35408 *
US-PATENT-CLASS-310-68B ..... c 35 N84-28017 *
US-PATENT-CLASS-310-68 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-77 ..... c 37 N85-30333 *
US-PATENT-CLASS-310-8.2 ..... c 35 N76-15432 *
US-PATENT-CLASS-310-8.5 ..... c 14 N71-22993 *
US-PATENT-CLASS-310-800 ..... c 76 N83-34796 *
US-PATENT-CLASS-310-80 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-82 ..... c 33 N79-20314 *
US-PATENT-CLASS-310-83 ..... c 15 N72-25456 *
US-PATENT-CLASS-310-9.1 ..... c 15 N71-21311 *
US-PATENT-CLASS-310-90.5 ..... c 37 N87-17038 *
US-PATENT-CLASS-310-90.5 ..... c 37 N91-21539 *
US-PATENT-CLASS-310-90.5 ..... c 70 N91-21824 *
US-PATENT-CLASS-310-93 ..... c 15 N71-17652 *
US-PATENT-CLASS-310-93 ..... c 37 N85-30333 *
US-PATENT-CLASS-311-37 ..... c 35 N75-29380 *
US-PATENT-CLASS-312-196 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-1 ..... c 05 N71-23080 *
US-PATENT-CLASS-312-1 ..... c 05 N73-20137 *
US-PATENT-CLASS-312-1 ..... c 37 N74-20063 *
US-PATENT-CLASS-312-208 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-209 ..... c 37 N74-18123 *
US-PATENT-CLASS-312-257 ..... c 31 N72-22874 *
US-PATENT-CLASS-312-296 ..... c 09 N71-18600 *
US-PATENT-CLASS-312-300 ..... c 54 N88-24163 *
US-PATENT-CLASS-312-319 ..... c 37 N79-33467 *
US-PATENT-CLASS-312-7.2 ..... c 54 N88-24163 *
US-PATENT-CLASS-313-DIG.8 .... c 28 N73-24783 *
US-PATENT-CLASS-313-104 ..... c 14 N73-32317 *
US-PATENT-CLASS-313-106 ..... c 24 N83-10117 *
US-PATENT-CLASS-313-106 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-106 ..... c 31 N86-32587 *
US-PATENT-CLASS-313-107 ..... c 24 N83-10117 *
US-PATENT-CLASS-313-107 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-107 ..... c 31 N86-32587 *
US-PATENT-CLASS-313-109.5 .... c 09 N71-33519 *
US-PATENT-CLASS-313-11.5 ..... c 28 N70-39925 *
US-PATENT-CLASS-313-110 ..... c 09 N71-12521 *
US-PATENT-CLASS-313-131A .... c 33 N85-21491 *
US-PATENT-CLASS-313-146 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-153 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-156 ..... c 25 N70-34661 *
US-PATENT-CLASS-313-156 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-161 ..... c 25 N73-25760 *
US-PATENT-CLASS-313-161 ..... c 09 N73-30181 *
US-PATENT-CLASS-313-161 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-175 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-175 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-176 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-180 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-180 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-182 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-184 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-184 ..... c 33 N77-21316 *
US-PATENT-CLASS-313-184 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-186 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-209 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-212 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-217 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-217 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-218 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-224 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-224 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-224 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-224 ..... c 31 N78-17238 *
US-PATENT-CLASS-313-22 ..... c 09 N71-26787 *
US-PATENT-CLASS-313-22 ..... c 31 N78-17237 *
US-PATENT-CLASS-313-22 ..... c 31 N78-25256 *
US-PATENT-CLASS-313-22 ..... c 34 N79-20336 *
US-PATENT-CLASS-313-230 ..... c 28 N71-28850 *
US-PATENT-CLASS-313-230 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-230 ..... c 20 N77-20162 *
US-PATENT-CLASS-313-231.3 .... c 20 N77-20162 *
US-PATENT-CLASS-313-231.3 .... c 75 N78-27913 *
US-PATENT-CLASS-313-231.4 .... c 20 N77-10148 *
US-PATENT-CLASS-313-231.4 .... c 72 N80-33186 *
US-PATENT-CLASS-313-231 ..... c 06 N69-39889 * #
US-PATENT-CLASS-313-231 ..... c 09 N71-23190 *
US-PATENT-CLASS-313-231 ..... c 09 N71-33519 *
US-PATENT-CLASS-313-231 ..... c 25 N72-24753 *
US-PATENT-CLASS-313-231 ..... c 25 N72-32688 *
US-PATENT-CLASS-313-231 ..... c 28 N73-24783 *
US-PATENT-CLASS-313-231 ..... c 25 N73-25760 *
US-PATENT-CLASS-313-236 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-237 ..... c 09 N71-26182 *
US-PATENT-CLASS-313-237 ..... c 33 N87-28832 *
US-PATENT-CLASS-313-240 ..... c 20 N77-10148 *
US-PATENT-CLASS-313-250 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-271 ..... c 25 N71-20747 *
US-PATENT-CLASS-313-278 ..... c 33 N87-28832 *
US-PATENT-CLASS-313-306 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-309 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-309 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-311 ..... c 73 N77-18891 *
US-PATENT-CLASS-313-32 ..... c 33 N74-12913 *
US-PATENT-CLASS-313-32 ..... c 33 N77-21315 *
US-PATENT-CLASS-313-336 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-338 ..... c 31 N76-31365 *
US-PATENT-CLASS-313-348 ..... c 35 N82-24471 *
US-PATENT-CLASS-313-351 ..... c 10 N72-27246 *
US-PATENT-CLASS-313-351 ..... c 70 N84-28565 *
US-PATENT-CLASS-313-352 ..... c 09 N71-22987 *
US-PATENT-CLASS-313-355 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-356 ..... c 14 N72-29464 *
US-PATENT-CLASS-313-359.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-35 ..... c 34 N79-20336 *
US-PATENT-CLASS-313-360 ..... c 20 N77-20162 *
US-PATENT-CLASS-313-361.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-361 ..... c 20 N77-10148 *
US-PATENT-CLASS-313-362.1 .... c 72 N87-21660 *
US-PATENT-CLASS-313-362 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-362 ..... c 72 N80-33186 *
US-PATENT-CLASS-313-363 ..... c 72 N80-27163 *
US-PATENT-CLASS-313-442 ..... c 74 N78-18905 *
US-PATENT-CLASS-313-44 ..... c 15 N69-24319 * #
US-PATENT-CLASS-313-502 ..... c 76 N91-21911 *
US-PATENT-CLASS-313-502 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-503 ..... c 76 N91-21911 *
US-PATENT-CLASS-313-503 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-505 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-506 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-506 ..... c 76 N91-21911 *
US-PATENT-CLASS-313-506 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-509 ..... c 33 N87-28831 *
US-PATENT-CLASS-313-509 ..... c 74 N91-31950 *
US-PATENT-CLASS-313-60 ..... c 33 N77-22386 *
US-PATENT-CLASS-313-61S ..... c 73 N74-26767 *
US-PATENT-CLASS-313-61S ..... c 37 N78-13436 *
US-PATENT-CLASS-313-63 ..... c 28 N70-41576 *
US-PATENT-CLASS-313-63 ..... c 09 N71-10618 *
US-PATENT-CLASS-313-63 ..... c 28 N71-26781 *
US-PATENT-CLASS-313-63 ..... c 28 N73-24783 *
US-PATENT-CLASS-313-63 ..... c 28 N73-27699 *
US-PATENT-CLASS-313-63 ..... c 75 N75-13625 *
US-PATENT-CLASS-313-7 ..... c 14 N71-18482 *
US-PATENT-CLASS-313-7 ..... c 14 N73-32324 *
US-PATENT-CLASS-313-93 ..... c 35 N74-26949 *
US-PATENT-CLASS-313-93 ..... c 35 N82-24471 *
US-PATENT-CLASS-313-94 ..... c 33 N76-31409 *
US-PATENT-CLASS-313-94 ..... c 74 N78-18905 *
US-PATENT-CLASS-314-129 ..... c 15 N69-24266 * #
US-PATENT-CLASS-315-DIG.2 .... c 16 N73-32391 *
US-PATENT-CLASS-315-101 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-108 ..... c 09 N71-33519 *
US-PATENT-CLASS-315-108 ..... c 33 N77-21316 *
US-PATENT-CLASS-315-108 ..... c 36 N78-17366 *
US-PATENT-CLASS-315-10 ..... c 33 N74-21850 *
US-PATENT-CLASS-315-10 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-110 ..... c 33 N77-21316 *
US-PATENT-CLASS-315-111.2 .... c 75 N78-27913 *
US-PATENT-CLASS-315-111.31 .. c 33 N85-21491 *
US-PATENT-CLASS-315-111.3 .... c 20 N77-10148 *
US-PATENT-CLASS-315-111.3 .... c 20 N77-20162 *
US-PATENT-CLASS-315-111.41 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111.6 .... c 75 N76-14931 *
US-PATENT-CLASS-315-111.6 .... c 20 N77-20162 *
US-PATENT-CLASS-315-111.71 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111.81 .. c 33 N85-21491 *
US-PATENT-CLASS-315-111.81 .. c 33 N87-21234 *
US-PATENT-CLASS-315-111.81 .. c 72 N88-24253 *
US-PATENT-CLASS-315-111 ..... c 25 N70-33267 *
US-PATENT-CLASS-315-111 ..... c 25 N70-41628 *
US-PATENT-CLASS-315-111 ..... c 25 N71-15562 *
US-PATENT-CLASS-315-111 ..... c 24 N71-16213 *
US-PATENT-CLASS-315-111 ..... c 25 N71-21693 *
US-PATENT-CLASS-315-111 ..... c 28 N71-26781 *
US-PATENT-CLASS-315-111 ..... c 25 N71-29184 *
US-PATENT-CLASS-315-111 ..... c 09 N71-33519 *
US-PATENT-CLASS-315-111 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-111 ..... c 25 N72-32688 *
US-PATENT-CLASS-315-111 ..... c 14 N73-30391 *
US-PATENT-CLASS-315-111 ..... c 75 N75-13625 *
US-PATENT-CLASS-315-111 ..... c 33 N75-29318 *
US-PATENT-CLASS-315-111 ..... c 37 N75-29426 *
US-PATENT-CLASS-315-11 ..... c 33 N74-21850 *
US-PATENT-CLASS-315-12 ..... c 33 N74-21850 *
US-PATENT-CLASS-315-135 ..... c 09 N72-25250 *
US-PATENT-CLASS-315-145 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-151 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-153 ..... c 14 N73-16483 *
US-PATENT-CLASS-315-153 ..... c 74 N79-12890 *
US-PATENT-CLASS-315-156 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-158 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-160 ..... c 09 N71-12540 *
US-PATENT-CLASS-315-169R .... c 23 N73-13660 *
US-PATENT-CLASS-315-169R .... c 36 N75-19652 *
US-PATENT-CLASS-315-169TV .. c 23 N73-13660 *
US-PATENT-CLASS-315-172 ..... c 33 N88-24862 *
US-PATENT-CLASS-315-173 ..... c 33 N88-24862 *
US-PATENT-CLASS-315-176 ..... c 33 N77-28385 *
US-PATENT-CLASS-315-18 ..... c 32 N74-20813 *
US-PATENT-CLASS-315-18 ..... c 33 N75-19517 *
US-PATENT-CLASS-315-200-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-208 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-209CD .. c 37 N79-11405 *
US-PATENT-CLASS-315-209SC .. c 37 N79-11405 *
US-PATENT-CLASS-315-211 ..... c 33 N74-20859 *
US-PATENT-CLASS-315-22R ..... c 10 N72-31273 *
US-PATENT-CLASS-315-224 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-225 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-227-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-228 ..... c 33 N74-20859 *
US-PATENT-CLASS-315-22 ..... c 10 N72-20225 *
US-PATENT-CLASS-315-22 ..... c 32 N74-20813 *
US-PATENT-CLASS-315-22 ..... c 33 N78-17293 *
US-PATENT-CLASS-315-237 ..... c 33 N83-34189 *
US-PATENT-CLASS-315-241-R ... c 33 N88-23942 *
US-PATENT-CLASS-315-241R .... c 37 N79-11405 *
US-PATENT-CLASS-315-241R .... c 33 N83-34189 *
US-PATENT-CLASS-315-241 ..... c 09 N71-13518 *
US-PATENT-CLASS-315-248 ..... c 09 N73-30181 *
US-PATENT-CLASS-315-24 ..... c 08 N71-20571 *
US-PATENT-CLASS-315-254 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-255 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-258 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-25 ..... c 10 N72-20225 *
US-PATENT-CLASS-315-260 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-26 ..... c 09 N71-23189 *
US-PATENT-CLASS-315-276 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-277 ..... c 33 N88-23942 *
US-PATENT-CLASS-315-297 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-3.5 ..... c 09 N73-13208 *
US-PATENT-CLASS-315-3.5 ..... c 33 N79-10339 *
US-PATENT-CLASS-315-3.5 ..... c 33 N82-26568 *
US-PATENT-CLASS-315-3.5 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-3.5 ..... c 37 N85-33489 *
US-PATENT-CLASS-315-3.5 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-3.5 ..... c 33 N90-22724 *
US-PATENT-CLASS-315-3.6 ..... c 33 N79-10339 *
US-PATENT-CLASS-315-3.6 ..... c 33 N82-24415 *
US-PATENT-CLASS-315-3.6 ..... c 33 N82-26568 *
US-PATENT-CLASS-315-3.6 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-3.6 ..... c 33 N84-27974 *
US-PATENT-CLASS-315-3.6 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-30R ..... c 10 N72-31273 *
US-PATENT-CLASS-315-307 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-30 ..... c 33 N75-27250 *
US-PATENT-CLASS-315-310 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-311 ..... c 14 N72-27411 *
US-PATENT-CLASS-315-324 ..... c 09 N73-30181 *
US-PATENT-CLASS-315-326 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-334 ..... c 33 N80-14330 *
US-PATENT-CLASS-315-344 ..... c 33 N77-21315 *
US-PATENT-CLASS-315-349 ..... c 09 N72-25250 *
US-PATENT-CLASS-315-356 ..... c 16 N73-32391 *
US-PATENT-CLASS-315-358 ..... c 25 N72-24753 *
US-PATENT-CLASS-315-367 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-369 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-36 ..... c 10 N72-27246 *
US-PATENT-CLASS-315-387 ..... c 33 N75-26244 *
US-PATENT-CLASS-315-39.3 ..... c 33 N84-16452 *
US-PATENT-CLASS-315-39.3 ..... c 33 N84-27974 *
US-PATENT-CLASS-315-39.3 ..... c 33 N86-21742 *
US-PATENT-CLASS-315-3 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-3 ..... c 33 N90-22724 *
US-PATENT-CLASS-315-4 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.35 ..... c 33 N74-10195 *
US-PATENT-CLASS-315-5.35 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.38 ..... c 09 N73-13208 *
US-PATENT-CLASS-315-5.38 ..... c 33 N74-10195 *
US-PATENT-CLASS-315-5.38 ..... c 33 N82-24415 *
US-PATENT-CLASS-315-5.38 ..... c 24 N83-10117 *
US-PATENT-CLASS-315-5.38 ..... c 33 N83-31952 *
US-PATENT-CLASS-315-5.38 ..... c 70 N84-28565 *
US-PATENT-CLASS-315-5.38 ..... c 37 N85-33489 *
US-PATENT-CLASS-315-5.38 ..... c 31 N86-32587 *
US-PATENT-CLASS-315-5 ..... c 33 N83-31952 *
US-PATENT-CLASS-317-DIG.3 .... c 10 N71-26334 *
US-PATENT-CLASS-317-DIG.6 .... c 10 N73-26228 *
US-PATENT-CLASS-317-100 ..... c 10 N71-28783 *
US-PATENT-CLASS-317-100 ..... c 10 N73-25243 *

US-PATENT-CLASS-317-101A .... c 09 N72-33205 *
US-PATENT-CLASS-317-101A .... c 23 N73-13660 *
US-PATENT-CLASS-317-101DH .. c 15 N72-22486 *
US-PATENT-CLASS-317-101DH .. c 10 N73-25243 *
US-PATENT-CLASS-317-101 ..... c 09 N71-26133 *
US-PATENT-CLASS-317-117 ..... c 15 N72-22486 *
US-PATENT-CLASS-317-120 ..... c 15 N72-22486 *
US-PATENT-CLASS-317-122 ..... c 15 N71-18701 *
US-PATENT-CLASS-317-123 ..... c 09 N71-24892 *
US-PATENT-CLASS-317-140 ..... c 09 N70-34502 *
US-PATENT-CLASS-317-148.5 .... c 10 N71-23271 *
US-PATENT-CLASS-317-148.5 .... c 09 N71-24892 *
US-PATENT-CLASS-317-153 ..... c 10 N71-26334 *
US-PATENT-CLASS-317-155.5 .... c 09 N71-29008 *
US-PATENT-CLASS-317-157.5 .... c 15 N69-21472 * #
US-PATENT-CLASS-317-158 ..... c 15 N73-28516 *
US-PATENT-CLASS-317-158 ..... c 26 N73-28710 *
US-PATENT-CLASS-317-158 ..... c 15 N73-32361 *
US-PATENT-CLASS-317-16 ..... c 09 N69-39897 * #
US-PATENT-CLASS-317-16 ..... c 33 N74-17929 *
US-PATENT-CLASS-317-2D ..... c 33 N77-10429 *
US-PATENT-CLASS-317-20 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-230 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-230 ..... c 26 N72-28761 *
US-PATENT-CLASS-317-231 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-234A .... c 15 N73-14469 *
US-PATENT-CLASS-317-234D .... c 14 N72-31446 *
US-PATENT-CLASS-317-234E .... c 33 N74-12951 *
US-PATENT-CLASS-317-234F .... c 33 N74-12951 *
US-PATENT-CLASS-317-234G .... c 14 N72-31446 *
US-PATENT-CLASS-317-234G .... c 15 N73-14469 *
US-PATENT-CLASS-317-234G .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234J ..... c 26 N72-25679 *
US-PATENT-CLASS-317-234L ..... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234M .... c 33 N74-12951 *
US-PATENT-CLASS-317-234N .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234N .... c 33 N74-12951 *
US-PATENT-CLASS-317-234R .... c 09 N73-27150 * #
US-PATENT-CLASS-317-234R .... c 33 N74-12951 *
US-PATENT-CLASS-317-234V .... c 26 N72-21701 *
US-PATENT-CLASS-317-234V .... c 09 N73-15235 *
US-PATENT-CLASS-317-234 ..... c 14 N69-23191 * #
US-PATENT-CLASS-317-234 ..... c 09 N69-27422 * #
US-PATENT-CLASS-317-234 ..... c 26 N71-18064 *
US-PATENT-CLASS-317-235AG . c 09 N73-15235 *
US-PATENT-CLASS-317-235AJ ... c 26 N72-25679 *
US-PATENT-CLASS-317-235AJ ... c 09 N72-33205 *
US-PATENT-CLASS-317-235AM . c 09 N73-19235 *
US-PATENT-CLASS-317-235A .... c 26 N72-25679 *
US-PATENT-CLASS-317-235A .... c 09 N72-33205 *
US-PATENT-CLASS-317-235H .... c 35 N75-13213 *
US-PATENT-CLASS-317-235K .... c 09 N73-15235 *
US-PATENT-CLASS-317-235M .... c 14 N72-31446 *
US-PATENT-CLASS-317-235N .... c 09 N73-19235 *
US-PATENT-CLASS-317-235N .... c 35 N74-15090 *
US-PATENT-CLASS-317-235R .... c 26 N72-21701 *
US-PATENT-CLASS-317-235R .... c 26 N72-25679 *
US-PATENT-CLASS-317-235R .... c 14 N72-31446 *
US-PATENT-CLASS-317-235R .... c 09 N73-19235 *
US-PATENT-CLASS-317-235R .... c 09 N73-32112 *
US-PATENT-CLASS-317-235T .... c 09 N73-19235 *
US-PATENT-CLASS-317-235UA .. c 09 N73-19235 *
US-PATENT-CLASS-317-235WW c 09 N73-32112 *
US-PATENT-CLASS-317-235 ..... c 09 N69-24318 * #
US-PATENT-CLASS-317-235 ..... c 09 N72-33205 *
US-PATENT-CLASS-317-238 ..... c 09 N71-27232 *
US-PATENT-CLASS-317-245 ..... c 33 N79-21265 *
US-PATENT-CLASS-317-246 ..... c 14 N69-21541 * #
US-PATENT-CLASS-317-246 ..... c 33 N76-21390 *
US-PATENT-CLASS-317-246 ..... c 35 N76-22509 *
US-PATENT-CLASS-317-247 ..... c 14 N72-24477 *
US-PATENT-CLASS-317-258 ..... c 09 N71-13522 *
US-PATENT-CLASS-317-258 ..... c 33 N76-15373 *
US-PATENT-CLASS-317-261 ..... c 26 N72-28761 *
US-PATENT-CLASS-317-261 ..... c 33 N76-15373 *
US-PATENT-CLASS-317-31 ..... c 09 N71-12526 *
US-PATENT-CLASS-317-31 ..... c 10 N71-23543 *
US-PATENT-CLASS-317-31 ..... c 33 N74-17929 *
US-PATENT-CLASS-317-31 ..... c 33 N77-14333 *
US-PATENT-CLASS-317-33SC .... c 33 N74-14956 *
US-PATENT-CLASS-317-33 ..... c 10 N71-26531 *
US-PATENT-CLASS-317-33 ..... c 09 N71-27001 *
US-PATENT-CLASS-317-33 ..... c 10 N71-27366 *
US-PATENT-CLASS-317-33 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-43 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-46 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-47 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-48 ..... c 33 N74-14956 *
US-PATENT-CLASS-317-54 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-60 ..... c 09 N71-29008 *
US-PATENT-CLASS-317-9 ..... c 09 N71-22796 *
US-PATENT-CLASS-317-9 ..... c 09 N71-27001 *
US-PATENT-CLASS-318-107 ..... c 44 N87-21410 *
US-PATENT-CLASS-318-116 ..... c 71 N79-20827 *
US-PATENT-CLASS-318-116 ..... c 71 N84-23233 *
US-PATENT-CLASS-318-116 ..... c 33 N87-28833 *
US-PATENT-CLASS-318-135 ..... c 33 N82-24421 *
US-PATENT-CLASS-318-135 ..... c 37 N91-21539 *
US-PATENT-CLASS-318-137 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-138 ..... c 09 N71-10677 *
US-PATENT-CLASS-318-138 ..... c 14 N71-17585 *
US-PATENT-CLASS-318-138 ..... c 10 N71-18772 *
US-PATENT-CLASS-318-138 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-138 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-138 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-138 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-15 ..... c 37 N80-32716 *
US-PATENT-CLASS-318-161 ..... c 44 N87-21410 *
US-PATENT-CLASS-318-167 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-176 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-183 ..... c 33 N75-19524 *
US-PATENT-CLASS-318-20.105 .. c 08 N71-27057 *
US-PATENT-CLASS-318-200 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-227 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-227 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-227 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-227 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-22 ..... c 15 N71-17694 *
US-PATENT-CLASS-318-230 ..... c 07 N71-33613 *
US-PATENT-CLASS-318-230 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-230 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-230 ..... c 33 N78-10376 *
US-PATENT-CLASS-318-231 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-231 ..... c 33 N75-15874 *
US-PATENT-CLASS-318-254 ..... c 09 N71-25999 *
US-PATENT-CLASS-318-254 ..... c 09 N73-32107 *
US-PATENT-CLASS-318-254 ..... c 33 N77-26386 *
US-PATENT-CLASS-318-254 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-254 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-254 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-257 ..... c 10 N71-18724 *
US-PATENT-CLASS-318-258 ..... c 09 N71-26092 *
US-PATENT-CLASS-318-260 ..... c 09 N70-38712 *
US-PATENT-CLASS-318-265 ..... c 15 N71-24895 *
US-PATENT-CLASS-318-267 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-308 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-314 ..... c 10 N71-20448 *
US-PATENT-CLASS-318-314 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-317 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-318 ..... c 09 N71-24805 *
US-PATENT-CLASS-318-318 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-31 ..... c 15 N71-28952 *
US-PATENT-CLASS-318-327 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-328 ..... c 09 N73-32107 *
US-PATENT-CLASS-318-331 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-341 ..... c 10 N73-32145 *
US-PATENT-CLASS-318-341 ..... c 09 N75-24758 *
US-PATENT-CLASS-318-345 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-376 ..... c 10 N71-16030 *
US-PATENT-CLASS-318-376 ..... c 11 N72-20244 *
US-PATENT-CLASS-318-382 ..... c 15 N71-24695 *
US-PATENT-CLASS-318-434 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-438 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-439 ..... c 33 N81-20352 * #
US-PATENT-CLASS-318-439 ..... c 33 N87-21233 *
US-PATENT-CLASS-318-468 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-46 ..... c 44 N85-21769 *
US-PATENT-CLASS-318-470 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-489 ..... c 02 N73-19004 *
US-PATENT-CLASS-318-48 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-504 ..... c 09 N71-28886 *
US-PATENT-CLASS-318-561 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-561 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-561 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-564 ..... c 60 N82-29013 *
US-PATENT-CLASS-318-568.11 .. c 63 N91-31885 *
US-PATENT-CLASS-318-568.16 .. c 37 N91-21542 *
US-PATENT-CLASS-318-568.1 .... c 33 N91-31528 *
US-PATENT-CLASS-318-568.20 .. c 37 N91-21542 *
US-PATENT-CLASS-318-568.21 .. c 37 N91-21542 *
US-PATENT-CLASS-318-568.2 .... c 33 N91-31528 *
US-PATENT-CLASS-318-571 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-573 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-573 ..... c 33 N91-31528 *
US-PATENT-CLASS-318-573 ..... c 63 N91-31885 *
US-PATENT-CLASS-318-576 ..... c 09 N72-21246 *
US-PATENT-CLASS-318-577 ..... c 37 N86-21850 *
US-PATENT-CLASS-318-580 ..... c 08 N74-10942 *
US-PATENT-CLASS-318-580 ..... c 04 N82-23231 *
US-PATENT-CLASS-318-584 ..... c 08 N81-24106 *
US-PATENT-CLASS-318-584 ..... c 08 N86-27288 *
US-PATENT-CLASS-318-585 ..... c 08 N79-23097 *
US-PATENT-CLASS-318-587 ..... c 35 N84-33769 *
US-PATENT-CLASS-318-594 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-599 ..... c 10 N71-24861 *
US-PATENT-CLASS-318-602 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-603 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-605 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-608 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-611 ..... c 37 N85-30333 *
US-PATENT-CLASS-318-615 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-616 ..... c 08 N79-23097 *
US-PATENT-CLASS-318-618 ..... c 33 N90-21951 *
US-PATENT-CLASS-318-620 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-621 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-622 ..... c 33 N82-18493 *
US-PATENT-CLASS-318-628 ..... c 08 N74-10942 *
US-PATENT-CLASS-318-628 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-632 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-636 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-640 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-640 ..... c 54 N75-27758 *
US-PATENT-CLASS-318-640 ..... c 35 N79-14348 *
US-PATENT-CLASS-318-640 ..... c 37 N81-27519 *
US-PATENT-CLASS-318-640 ..... c 08 N86-27288 *
US-PATENT-CLASS-318-646 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-648 ..... c 37 N91-21544 *
US-PATENT-CLASS-318-649 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-653 ..... c 10 N71-27136 *
US-PATENT-CLASS-318-661 ..... c 31 N86-29055 *
US-PATENT-CLASS-318-663 ..... c 37 N81-33483 *
US-PATENT-CLASS-318-663 ..... c 37 N86-27629 *
US-PATENT-CLASS-318-664 ..... c 33 N74-29556 *
US-PATENT-CLASS-318-675 ..... c 33 N75-13139 *
US-PATENT-CLASS-318-675 ..... c 37 N77-27400 *
US-PATENT-CLASS-318-685 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-729 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-729 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-729 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-729 ..... c 33 N84-22886 *
US-PATENT-CLASS-318-729 ..... c 33 N84-27975 *
US-PATENT-CLASS-318-729 ..... c 33 N84-33661 *
US-PATENT-CLASS-318-729 ..... c 44 N85-21769 *
US-PATENT-CLASS-318-729 ..... c 33 N85-22877 *
US-PATENT-CLASS-318-798 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-798 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-798 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-798 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-799 ..... c 33 N81-27395 *
US-PATENT-CLASS-318-799 ..... c 33 N84-16455 *
US-PATENT-CLASS-318-800 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-802 ..... c 33 N84-33661 *
US-PATENT-CLASS-318-803 ..... c 33 N83-10345 *
US-PATENT-CLASS-318-803 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-805 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-806 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-806 ..... c 33 N83-34190 *
US-PATENT-CLASS-318-806 ..... c 33 N83-35227 *
US-PATENT-CLASS-318-806 ..... c 33 N84-14424 *
US-PATENT-CLASS-318-809 ..... c 33 N83-31953 *
US-PATENT-CLASS-318-809 ..... c 33 N84-27975 *
US-PATENT-CLASS-318-810 ..... c 33 N81-27395 *
US-PATENT-CLASS-318-810 ..... c 33 N84-22885 *
US-PATENT-CLASS-318-812 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-812 ..... c 33 N84-22886 *
US-PATENT-CLASS-318-812 ..... c 33 N85-22877 *
US-PATENT-CLASS-318-830 ..... c 33 N82-26569 *
US-PATENT-CLASS-318-8 ..... c 37 N86-27629 *
US-PATENT-CLASS-32-28 ..... c 05 N73-27062 *
US-PATENT-CLASS-32-58 ..... c 05 N73-27062 *
US-PATENT-CLASS-320-13 ..... c 03 N71-29129 *
US-PATENT-CLASS-320-13 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-15 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-15 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-17 ..... c 03 N71-24605 *
US-PATENT-CLASS-320-18 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-21 ..... c 44 N76-18643 *
US-PATENT-CLASS-320-22 ..... c 44 N76-18643 *
US-PATENT-CLASS-320-23 ..... c 03 N71-19438 *
US-PATENT-CLASS-320-2 ..... c 44 N77-14581 *
US-PATENT-CLASS-320-32 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-39 ..... c 03 N71-24719 *
US-PATENT-CLASS-320-39 ..... c 44 N78-25531 *
US-PATENT-CLASS-320-40 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-48 ..... c 03 N72-25020 *
US-PATENT-CLASS-320-51 ..... c 33 N91-14537 *
US-PATENT-CLASS-320-53 ..... c 33 N78-17296 *
US-PATENT-CLASS-320-6 ..... c 44 N78-14625 *
US-PATENT-CLASS-320-9 ..... c 44 N78-25531 *
US-PATENT-CLASS-321-1.5 ..... c 09 N73-32109 *
US-PATENT-CLASS-321-10 ..... c 09 N72-17154 *
US-PATENT-CLASS-321-11 ..... c 09 N69-39984 * #
US-PATENT-CLASS-321-11 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-11 ..... c 10 N73-26228 *
US-PATENT-CLASS-321-12 ..... c 10 N71-27366 *
US-PATENT-CLASS-321-13 ..... c 33 N77-14333 *
US-PATENT-CLASS-321-14 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-15 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-15 ..... c 33 N75-19522 *
US-PATENT-CLASS-321-18 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-18 ..... c 09 N72-25251 *
US-PATENT-CLASS-321-18 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-18 ..... c 33 N74-11049 *
US-PATENT-CLASS-321-19 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-19 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-19 ..... c 33 N77-10428 *
US-PATENT-CLASS-321-25 ..... c 09 N72-22196 *

US-PATENT-CLASS-321-2 ..... c 03 N69-21330 * #
US-PATENT-CLASS-321-2 ..... c 03 N69-25146 * #
US-PATENT-CLASS-321-2 ..... c 03 N71-12255 *
US-PATENT-CLASS-321-2 ..... c 09 N71-23188 *
US-PATENT-CLASS-321-2 ..... c 03 N71-23239 *
US-PATENT-CLASS-321-2 ..... c 10 N71-26085 *
US-PATENT-CLASS-321-2 ..... c 09 N72-22196 *
US-PATENT-CLASS-321-2 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25249 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25251 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25252 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25253 *
US-PATENT-CLASS-321-2 ..... c 09 N72-25254 *
US-PATENT-CLASS-321-2 ..... c 33 N74-11049 *
US-PATENT-CLASS-321-2 ..... c 33 N77-10428 *
US-PATENT-CLASS-321-45C ..... c 10 N73-26228 *
US-PATENT-CLASS-321-45ER .... c 09 N72-25252 *
US-PATENT-CLASS-321-45R ..... c 09 N72-25252 *
US-PATENT-CLASS-321-45R ..... c 09 N72-25254 *
US-PATENT-CLASS-321-45R ..... c 33 N74-22864 *
US-PATENT-CLASS-321-45S ..... c 33 N74-11049 *
US-PATENT-CLASS-321-45 ..... c 09 N71-24800 *
US-PATENT-CLASS-321-45 ..... c 09 N72-22203 *
US-PATENT-CLASS-321-47 ..... c 09 N71-33109 *
US-PATENT-CLASS-321-47 ..... c 09 N72-25253 *
US-PATENT-CLASS-321-48 ..... c 12 N71-20896 *
US-PATENT-CLASS-321-5 ..... c 08 N71-18752 *
US-PATENT-CLASS-321-60 ..... c 14 N71-23174 *
US-PATENT-CLASS-321-61 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-64 ..... c 09 N71-27364 *
US-PATENT-CLASS-321-69 ..... c 10 N71-26414 *
US-PATENT-CLASS-321-8R ..... c 35 N74-18090 *
US-PATENT-CLASS-321-9 ..... c 10 N71-25139 *
US-PATENT-CLASS-322-2R ..... c 07 N83-20944 *
US-PATENT-CLASS-322-25 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-29 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-29 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-2 ..... c 03 N72-23048 *
US-PATENT-CLASS-322-32 ..... c 09 N71-27364 *
US-PATENT-CLASS-322-35 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-47 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-47 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-95 ..... c 33 N83-28319 *
US-PATENT-CLASS-322-95 ..... c 33 N84-33660 *
US-PATENT-CLASS-322-96 ..... c 33 N77-26387 *
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-21243 *
US-PATENT-CLASS-323-DIG.1 .... c 09 N72-25249 *
US-PATENT-CLASS-323-DIG.1 .... c 33 N74-11049 *
US-PATENT-CLASS-323-DIG.1 .... c 33 N77-10428 *
US-PATENT-CLASS-323-106 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-122 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-128 ..... c 33 N74-22885 *
US-PATENT-CLASS-323-15 ..... c 20 N79-20179 *
US-PATENT-CLASS-323-15 ..... c 44 N80-14472 *
US-PATENT-CLASS-323-17 ..... c 09 N72-25249 *
US-PATENT-CLASS-323-17 ..... c 33 N77-10428 *
US-PATENT-CLASS-323-18 ..... c 33 N78-17295 *
US-PATENT-CLASS-323-19 ..... c 08 N72-31226 *
US-PATENT-CLASS-323-19 ..... c 33 N78-17296 *
US-PATENT-CLASS-323-19 ..... c 44 N80-14472 *
US-PATENT-CLASS-323-20 ..... c 14 N71-27407 *
US-PATENT-CLASS-323-20 ..... c 20 N79-20179 *
US-PATENT-CLASS-323-22T ..... c 09 N72-21243 *
US-PATENT-CLASS-323-22T ..... c 09 N72-25249 *
US-PATENT-CLASS-323-22T ..... c 33 N77-10428 *
US-PATENT-CLASS-323-22T ..... c 33 N79-23345 *
US-PATENT-CLASS-323-22 ..... c 09 N71-21449 *
US-PATENT-CLASS-323-22 ..... c 09 N71-23316 *
US-PATENT-CLASS-323-23 ..... c 33 N77-10428 *
US-PATENT-CLASS-323-243 ..... c 33 N84-16455 *
US-PATENT-CLASS-323-246 ..... c 33 N84-16455 *
US-PATENT-CLASS-323-269 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-300 ..... c 33 N84-27975 *
US-PATENT-CLASS-323-303 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-311 ..... c 33 N91-27479 *
US-PATENT-CLASS-323-312 ..... c 33 N91-27479 *
US-PATENT-CLASS-323-350 ..... c 33 N83-27126 *
US-PATENT-CLASS-323-354 ..... c 33 N90-19492 *
US-PATENT-CLASS-323-38 ..... c 09 N72-21243 *
US-PATENT-CLASS-323-44F ..... c 33 N79-17133 *
US-PATENT-CLASS-323-48 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-48 ..... c 09 N72-25262 *
US-PATENT-CLASS-323-4 ..... c 33 N78-17294 *
US-PATENT-CLASS-323-56 ..... c 10 N71-22961 *
US-PATENT-CLASS-323-56 ..... c 09 N71-24893 *
US-PATENT-CLASS-323-56 ..... c 09 N72-22196 *
US-PATENT-CLASS-323-60 ..... c 09 N71-27053 *
US-PATENT-CLASS-323-82 ..... c 09 N72-25262 *
US-PATENT-CLASS-323-89C ..... c 09 N72-22196 *
US-PATENT-CLASS-323-8 ..... c 10 N71-10578 *
US-PATENT-CLASS-323-901 ..... c 33 N84-33663 *
US-PATENT-CLASS-323-903 ..... c 33 N90-20320 *
US-PATENT-CLASS-323-93 ..... c 33 N77-31404 *
US-PATENT-CLASS-324-.5R ..... c 16 N73-13489 *
US-PATENT-CLASS-324-.5 ..... c 14 N71-20428 *
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-19520 *
US-PATENT-CLASS-324-DIG.1 .... c 33 N75-25041 *
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-0.5 ..... c 14 N71-26266 *
US-PATENT-CLASS-324-0.5 ..... c 36 N79-14362 *
US-PATENT-CLASS-324-102 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-102 ..... c 33 N74-17930 *
US-PATENT-CLASS-324-102 ..... c 33 N75-19521 *
US-PATENT-CLASS-324-102 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-102 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-103 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-106 ..... c 14 N70-38602 *
US-PATENT-CLASS-324-106 ..... c 08 N71-29138 *
US-PATENT-CLASS-324-107 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-112 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-113 ..... c 09 N70-41655 *
US-PATENT-CLASS-324-113 ..... c 33 N75-19521 *
US-PATENT-CLASS-324-113 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-113 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-115 ..... c 14 N71-26244 *
US-PATENT-CLASS-324-115 ..... c 10 N72-20222 *
US-PATENT-CLASS-324-115 ..... c 17 N91-14371 *
US-PATENT-CLASS-324-117 ..... c 14 N71-23037 *
US-PATENT-CLASS-324-117 ..... c 33 N89-29681 *
US-PATENT-CLASS-324-118 ..... c 33 N74-17930 *
US-PATENT-CLASS-324-119 ..... c 09 N72-11225 *
US-PATENT-CLASS-324-120 ..... c 14 N71-19431 *
US-PATENT-CLASS-324-120 ..... c 09 N71-23021 *
US-PATENT-CLASS-324-123C .... c 33 N79-22373 *
US-PATENT-CLASS-324-123R .... c 09 N72-11225 *
US-PATENT-CLASS-324-127 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-127 ..... c 33 N89-29681 *
US-PATENT-CLASS-324-130 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-132 ..... c 09 N71-13530 *
US-PATENT-CLASS-324-132 ..... c 10 N72-20222 *
US-PATENT-CLASS-324-133 ..... c 10 N71-27338 *
US-PATENT-CLASS-324-133 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-133 ..... c 33 N79-11315 *
US-PATENT-CLASS-324-133 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-133 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-158-D ... c 33 N87-22894 *
US-PATENT-CLASS-324-158-R ... c 33 N87-22894 *
US-PATENT-CLASS-324-158D .... c 15 N72-25457 *
US-PATENT-CLASS-324-158D .... c 76 N76-20994 *
US-PATENT-CLASS-324-158D .... c 44 N80-18551 *
US-PATENT-CLASS-324-158D .... c 76 N84-35112 * #
US-PATENT-CLASS-324-158D .... c 76 N85-30923 *
US-PATENT-CLASS-324-158F .... c 33 N91-14552 *
US-PATENT-CLASS-324-158P .... c 33 N91-14552 *
US-PATENT-CLASS-324-158R .... c 76 N76-20994 *
US-PATENT-CLASS-324-158R .... c 33 N85-30187 *
US-PATENT-CLASS-324-158T .... c 15 N72-25457 *
US-PATENT-CLASS-324-158T .... c 35 N75-12270 *
US-PATENT-CLASS-324-158T .... c 76 N76-20994 *
US-PATENT-CLASS-324-158T .... c 33 N80-14332 *
US-PATENT-CLASS-324-158T .... c 76 N84-35112 * #
US-PATENT-CLASS-324-158 ..... c 09 N69-21926 * #
US-PATENT-CLASS-324-163 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-165 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-173 ..... c 35 N78-32396 *
US-PATENT-CLASS-324-174 ..... c 35 N77-30436 *
US-PATENT-CLASS-324-181 ..... c 09 N71-24717 *
US-PATENT-CLASS-324-186 ..... c 09 N72-25257 *
US-PATENT-CLASS-324-186 ..... c 52 N74-12778 *
US-PATENT-CLASS-324-20R ..... c 09 N72-23172 *
US-PATENT-CLASS-324-20R ..... c 44 N79-12541 *
US-PATENT-CLASS-324-207 ..... c 35 N78-32396 *
US-PATENT-CLASS-324-209 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-226 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-226 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-227 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-22 ..... c 44 N79-12541 *
US-PATENT-CLASS-324-234 ..... c 27 N90-23544 *
US-PATENT-CLASS-324-235 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-236 ..... c 27 N90-23544 *
US-PATENT-CLASS-324-238 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-239 ..... c 26 N90-21170 *
US-PATENT-CLASS-324-240 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-249 ..... c 35 N78-32397 *
US-PATENT-CLASS-324-250 ..... c 35 N84-12444 *
US-PATENT-CLASS-324-262 ..... c 35 N84-22928 *
US-PATENT-CLASS-324-262 ..... c 35 N86-32698 *
US-PATENT-CLASS-324-29.5 ..... c 03 N72-25020 *
US-PATENT-CLASS-324-29.5 ..... c 14 N73-30388 *
US-PATENT-CLASS-324-29.5 ..... c 44 N74-27519 *
US-PATENT-CLASS-324-30B ..... c 33 N76-19339 *
US-PATENT-CLASS-324-30R ..... c 14 N73-20478 *
US-PATENT-CLASS-324-329 ..... c 35 N90-22023 *
US-PATENT-CLASS-324-32 ..... c 14 N71-16014 *
US-PATENT-CLASS-324-32 ..... c 33 N75-18477 *
US-PATENT-CLASS-324-32 ..... c 33 N75-19522 *
US-PATENT-CLASS-324-32 ..... c 35 N78-28411 *
US-PATENT-CLASS-324-33 ..... c 25 N69-39884 * #
US-PATENT-CLASS-324-33 ..... c 14 N70-35666 *
US-PATENT-CLASS-324-33 ..... c 24 N71-20518 *
US-PATENT-CLASS-324-33 ..... c 14 N71-21090 *
US-PATENT-CLASS-324-33 ..... c 14 N71-27090 *
US-PATENT-CLASS-324-34FL .... c 35 N74-21018 *
US-PATENT-CLASS-324-34R ..... c 26 N76-18257 *
US-PATENT-CLASS-324-34 ..... c 25 N71-16073 *
US-PATENT-CLASS-324-404 ..... c 44 N80-18551 *
US-PATENT-CLASS-324-40 ..... c 38 N74-15395 *
US-PATENT-CLASS-324-41 ..... c 10 N72-28240 *
US-PATENT-CLASS-324-427 ..... c 35 N85-21596 *
US-PATENT-CLASS-324-43R ..... c 35 N76-16390 *
US-PATENT-CLASS-324-43 ..... c 14 N69-27423 * #
US-PATENT-CLASS-324-43 ..... c 09 N70-40123 *
US-PATENT-CLASS-324-43 ..... c 14 N71-15962 *
US-PATENT-CLASS-324-43 ..... c 14 N71-26135 *
US-PATENT-CLASS-324-43 ..... c 14 N71-27325 *
US-PATENT-CLASS-324-457 ..... c 72 N84-28575 *
US-PATENT-CLASS-324-466 ..... c 33 N83-31954 *
US-PATENT-CLASS-324-51 ..... c 33 N80-26599 *
US-PATENT-CLASS-324-51 ..... c 33 N81-26359 *
US-PATENT-CLASS-324-51 ..... c 33 N82-24420 *
US-PATENT-CLASS-324-52 ..... c 14 N72-17325 *
US-PATENT-CLASS-324-52 ..... c 14 N73-28486 *
US-PATENT-CLASS-324-52 ..... c 33 N79-18193 *
US-PATENT-CLASS-324-52 ..... c 33 N82-24420 *
US-PATENT-CLASS-324-54 ..... c 33 N75-18477 *
US-PATENT-CLASS-324-57DE .... c 33 N78-25319 *
US-PATENT-CLASS-324-57H ..... c 35 N77-32455 *
US-PATENT-CLASS-324-57PS .... c 35 N75-21582 *
US-PATENT-CLASS-324-57R ..... c 15 N72-21464 *
US-PATENT-CLASS-324-57R ..... c 14 N73-30388 *
US-PATENT-CLASS-324-57R ..... c 35 N74-18090 *
US-PATENT-CLASS-324-57R ..... c 33 N79-10338 *
US-PATENT-CLASS-324-57R ..... c 35 N79-14349 *
US-PATENT-CLASS-324-57SS .... c 33 N78-25319 *
US-PATENT-CLASS-324-57 ..... c 10 N71-16057 *
US-PATENT-CLASS-324-57 ..... c 09 N71-20569 *
US-PATENT-CLASS-324-58.5A ... c 33 N75-26245 *
US-PATENT-CLASS-324-58.5B ... c 43 N78-10529 *
US-PATENT-CLASS-324-58.5C ... c 33 N75-26245 *
US-PATENT-CLASS-324-58.5 ..... c 15 N71-17822 *
US-PATENT-CLASS-324-58.5 ..... c 25 N71-20563 *
US-PATENT-CLASS-324-58.5 ..... c 14 N71-26137 *
US-PATENT-CLASS-324-58.5 ..... c 18 N71-27397 *
US-PATENT-CLASS-324-58A ..... c 33 N78-25319 *
US-PATENT-CLASS-324-59 ..... c 35 N77-32455 *
US-PATENT-CLASS-324-5 ..... c 14 N71-28991 *
US-PATENT-CLASS-324-60C ..... c 35 N75-12270 *
US-PATENT-CLASS-324-60C ..... c 76 N76-20994 *
US-PATENT-CLASS-324-601 ..... c 33 N91-14552 *
US-PATENT-CLASS-324-60 ..... c 33 N77-31404 *
US-PATENT-CLASS-324-61-R ..... c 35 N87-22953 *
US-PATENT-CLASS-324-61-R ..... c 35 N88-29149 *
US-PATENT-CLASS-324-61R ..... c 14 N72-24477 *
US-PATENT-CLASS-324-61R ..... c 35 N76-22509 *
US-PATENT-CLASS-324-61 ..... c 14 N69-39785 * #
US-PATENT-CLASS-324-61 ..... c 14 N70-36618 *
US-PATENT-CLASS-324-61 ..... c 14 N71-10797 *
US-PATENT-CLASS-324-61 ..... c 18 N71-27397 *
US-PATENT-CLASS-324-61 ..... c 14 N72-22442 *
US-PATENT-CLASS-324-62R ..... c 14 N73-30388 *
US-PATENT-CLASS-324-62 ..... c 33 N80-32650 *
US-PATENT-CLASS-324-62 ..... c 33 N90-19492 *
US-PATENT-CLASS-324-64 ..... c 15 N72-21464 *
US-PATENT-CLASS-324-64 ..... c 33 N80-32650 *
US-PATENT-CLASS-324-65-P ..... c 35 N85-34373 *
US-PATENT-CLASS-324-65P ..... c 14 N73-20478 *
US-PATENT-CLASS-324-65R ..... c 15 N72-23497 *
US-PATENT-CLASS-324-65R ..... c 33 N85-30187 *
US-PATENT-CLASS-324-65 ..... c 14 N71-27186 *
US-PATENT-CLASS-324-66 ..... c 05 N72-16015 *
US-PATENT-CLASS-324-70 ..... c 14 N70-41332 *
US-PATENT-CLASS-324-70 ..... c 14 N71-22990 *
US-PATENT-CLASS-324-70 ..... c 10 N71-24863 *
US-PATENT-CLASS-324-71.3 ..... c 72 N84-28575 *
US-PATENT-CLASS-324-71.5 ..... c 76 N85-30923 *
US-PATENT-CLASS-324-71CP .... c 35 N76-22509 *
US-PATENT-CLASS-324-71CP .... c 35 N82-11431 *
US-PATENT-CLASS-324-71R ..... c 09 N72-21246 *
US-PATENT-CLASS-324-71R ..... c 15 N72-21464 *
US-PATENT-CLASS-324-71 ..... c 09 N71-24843 *
US-PATENT-CLASS-324-72.5 ..... c 44 N74-27519 *
US-PATENT-CLASS-324-72.5 ..... c 72 N84-28575 *
US-PATENT-CLASS-324-72 ..... c 10 N71-19421 *
US-PATENT-CLASS-324-72 ..... c 14 N71-23699 *
US-PATENT-CLASS-324-72 ..... c 07 N73-20175 *
US-PATENT-CLASS-324-72 ..... c 14 N73-32318 *
US-PATENT-CLASS-324-72 ..... c 33 N74-27862 *
US-PATENT-CLASS-324-72 ..... c 33 N75-26246 *
US-PATENT-CLASS-324-72 ..... c 33 N77-10429 *
US-PATENT-CLASS-324-72 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-72 ..... c 33 N79-14305 *
US-PATENT-CLASS-324-72 ..... c 47 N82-24779 *
US-PATENT-CLASS-324-73AT .... c 08 N72-22166 *
US-PATENT-CLASS-324-73AT .... c 33 N81-26359 *
US-PATENT-CLASS-324-73R ..... c 33 N83-18996 *
US-PATENT-CLASS-324-73 ..... c 14 N71-28991 *
US-PATENT-CLASS-324-74 ..... c 35 N78-28411 *

US-PATENT-CLASS-324-77-E ..... c 33 N89-14385 *
US-PATENT-CLASS-324-77-R ..... c 33 N89-14385 *
US-PATENT-CLASS-324-77B ..... c 60 N75-13539 *
US-PATENT-CLASS-324-77B ..... c 32 N79-10262 *
US-PATENT-CLASS-324-77C ..... c 32 N79-10262 *
US-PATENT-CLASS-324-77G ..... c 08 N72-20177 *
US-PATENT-CLASS-324-77H ..... c 35 N75-21582 *
US-PATENT-CLASS-324-77K ..... c 35 N79-10391 *
US-PATENT-CLASS-324-77R ..... c 10 N73-25240 *
US-PATENT-CLASS-324-77R ..... c 47 N82-24779 *
US-PATENT-CLASS-324-77 ..... c 09 N71-10659 *
US-PATENT-CLASS-324-77 ..... c 07 N71-24622 *
US-PATENT-CLASS-324-78-D ..... c 33 N89-14385 *
US-PATENT-CLASS-324-78-F ..... c 33 N89-14385 *
US-PATENT-CLASS-324-78D ..... c 09 N72-25257 *
US-PATENT-CLASS-324-78D ..... c 52 N74-12778 *
US-PATENT-CLASS-324-78D ..... c 32 N90-17005 *
US-PATENT-CLASS-324-78E ..... c 14 N73-24473 *
US-PATENT-CLASS-324-78J ..... c 10 N73-25240 *
US-PATENT-CLASS-324-78J ..... c 33 N75-19515 *
US-PATENT-CLASS-324-78Z ..... c 32 N90-17005 *
US-PATENT-CLASS-324-79D ..... c 14 N73-30386 *
US-PATENT-CLASS-324-79D ..... c 33 N76-16331 *
US-PATENT-CLASS-324-79R ..... c 14 N72-27408 *
US-PATENT-CLASS-324-79R ..... c 33 N84-16454 *
US-PATENT-CLASS-324-83A ..... c 10 N72-20224 *
US-PATENT-CLASS-324-83A ..... c 33 N84-16454 *
US-PATENT-CLASS-324-83D ..... c 33 N79-10338 *
US-PATENT-CLASS-324-83Q ..... c 35 N74-21017 *
US-PATENT-CLASS-324-83Q ..... c 33 N75-26243 *
US-PATENT-CLASS-324-83R ..... c 33 N84-16454 *
US-PATENT-CLASS-324-85 ..... c 10 N72-20224 *
US-PATENT-CLASS-324-85 ..... c 33 N79-10338 *
US-PATENT-CLASS-324-92 ..... c 26 N72-25680 *
US-PATENT-CLASS-324-95 ..... c 10 N71-12554 *
US-PATENT-CLASS-324-95 ..... c 14 N73-30388 *
US-PATENT-CLASS-324-96 ..... c 26 N72-25680 *
US-PATENT-CLASS-324-96 ..... c 33 N79-10337 *
US-PATENT-CLASS-324-99D ..... c 33 N79-22373 *
US-PATENT-CLASS-325-10 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-113 ..... c 07 N71-24840 *
US-PATENT-CLASS-325-113 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-113 ..... c 52 N74-26625 *
US-PATENT-CLASS-325-114 ..... c 07 N72-25171 *
US-PATENT-CLASS-325-114 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-115 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-118 ..... c 17 N78-17140 *
US-PATENT-CLASS-325-12 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-139 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-13 ..... c 07 N72-12081 *
US-PATENT-CLASS-325-141 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-141 ..... c 52 N74-26625 *
US-PATENT-CLASS-325-143 ..... c 05 N71-12342 *
US-PATENT-CLASS-325-145 ..... c 32 N77-14292 *
US-PATENT-CLASS-325-148 ..... c 32 N74-19790 *
US-PATENT-CLASS-325-14 ..... c 17 N76-21250 *
US-PATENT-CLASS-325-14 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-151.11 .. c 08 N71-27057 *
US-PATENT-CLASS-325-159 ..... c 33 N78-32340 *
US-PATENT-CLASS-325-163 ..... c 07 N71-23405 *
US-PATENT-CLASS-325-16 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-17 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-185 ..... c 07 N71-28430 *
US-PATENT-CLASS-325-186 ..... c 03 N76-32140 *
US-PATENT-CLASS-325-187 ..... c 33 N78-32340 *
US-PATENT-CLASS-325-23 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-29 ..... c 09 N72-22202 *
US-PATENT-CLASS-325-302 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-304 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-305 ..... c 07 N71-10775 *
US-PATENT-CLASS-325-305 ..... c 10 N71-20841 *
US-PATENT-CLASS-325-305 ..... c 07 N71-23098 *
US-PATENT-CLASS-325-305 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-306 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-307 ..... c 32 N80-18253 *
US-PATENT-CLASS-325-30 ..... c 32 N74-26654 *
US-PATENT-CLASS-325-30 ..... c 32 N75-24981 *
US-PATENT-CLASS-325-30 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-31 ..... c 07 N71-20791 *
US-PATENT-CLASS-325-320 ..... c 33 N74-12887 *
US-PATENT-CLASS-325-320 ..... c 32 N74-20809 *
US-PATENT-CLASS-325-320 ..... c 32 N74-20811 *
US-PATENT-CLASS-325-320 ..... c 33 N74-27705 *
US-PATENT-CLASS-325-321 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-321 ..... c 32 N74-20810 *
US-PATENT-CLASS-325-321 ..... c 32 N76-16249 *
US-PATENT-CLASS-325-323 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-325 ..... c 07 N71-24613 *
US-PATENT-CLASS-325-325 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-325 ..... c 07 N73-13149 *
US-PATENT-CLASS-325-346 ..... c 10 N73-16205 *
US-PATENT-CLASS-325-346 ..... c 32 N74-30523 *
US-PATENT-CLASS-325-346 ..... c 32 N77-24331 *
US-PATENT-CLASS-325-347 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-348 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-349 ..... c 32 N77-10392 *

US-PATENT-CLASS-325-363 ..... c 07 N71-11267 *
US-PATENT-CLASS-325-363 ..... c 14 N71-26774 *
US-PATENT-CLASS-325-363 ..... c 14 N72-28437 *
US-PATENT-CLASS-325-363 ..... c 10 N73-25241 *
US-PATENT-CLASS-325-363 ..... c 35 N80-18359 *
US-PATENT-CLASS-325-369 ..... c 07 N71-27056 *
US-PATENT-CLASS-325-372 ..... c 32 N76-14321 *
US-PATENT-CLASS-325-373 ..... c 07 N72-33146 *
US-PATENT-CLASS-325-38B ..... c 35 N74-17885 *
US-PATENT-CLASS-325-38 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-38 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-39 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-40 ..... c 07 N73-26118 *
US-PATENT-CLASS-325-419 ..... c 10 N73-16205 *
US-PATENT-CLASS-325-419 ..... c 07 N73-28012 *
US-PATENT-CLASS-325-419 ..... c 32 N74-20810 *
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US-PATENT-CLASS-325-41 ..... c 10 N71-26577 *
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US-PATENT-CLASS-325-41 ..... c 32 N79-10263 *
US-PATENT-CLASS-325-420 ..... c 07 N73-30113 *
US-PATENT-CLASS-325-422 ..... c 07 N73-30113 *
US-PATENT-CLASS-325-423 ..... c 32 N74-20809 *
US-PATENT-CLASS-325-42 ..... c 07 N71-11266 *
US-PATENT-CLASS-325-42 ..... c 32 N76-21366 *
US-PATENT-CLASS-325-42 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-445 ..... c 07 N72-20141 *
US-PATENT-CLASS-325-446 ..... c 09 N69-24324 * #
US-PATENT-CLASS-325-45 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-473 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-473 ..... c 10 N73-12244 *
US-PATENT-CLASS-325-473 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-476 ..... c 32 N77-10392 *
US-PATENT-CLASS-325-478 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-480 ..... c 10 N73-12244 *
US-PATENT-CLASS-325-482 ..... c 07 N71-33696 *
US-PATENT-CLASS-325-492 ..... c 09 N72-17153 *
US-PATENT-CLASS-325-492 ..... c 09 N72-22202 *
US-PATENT-CLASS-325-4 ..... c 07 N71-16088 *
US-PATENT-CLASS-325-4 ..... c 07 N71-19773 *
US-PATENT-CLASS-325-4 ..... c 07 N71-24621 *
US-PATENT-CLASS-325-4 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-4 ..... c 07 N72-12080 *
US-PATENT-CLASS-325-4 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-4 ..... c 07 N72-25171 *
US-PATENT-CLASS-325-4 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-4 ..... c 15 N75-13007 *
US-PATENT-CLASS-325-4 ..... c 32 N75-26195 *
US-PATENT-CLASS-325-4 ..... c 32 N77-20289 *
US-PATENT-CLASS-325-4 ..... c 32 N79-11265 *
US-PATENT-CLASS-325-4 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-51 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-55 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-58 ..... c 07 N72-11149 *
US-PATENT-CLASS-325-58 ..... c 07 N72-20140 *
US-PATENT-CLASS-325-58 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-58 ..... c 32 N78-15323 *
US-PATENT-CLASS-325-58 ..... c 32 N79-20296 *
US-PATENT-CLASS-325-5 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-60 ..... c 08 N71-19763 *
US-PATENT-CLASS-325-60 ..... c 07 N73-16121 *
US-PATENT-CLASS-325-60 ..... c 32 N75-24981 *
US-PATENT-CLASS-325-61 ..... c 07 N73-25160 *
US-PATENT-CLASS-325-62 ..... c 08 N72-25208 *
US-PATENT-CLASS-325-62 ..... c 44 N74-19870 *
US-PATENT-CLASS-325-63 ..... c 10 N71-19467 *
US-PATENT-CLASS-325-63 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-63 ..... c 32 N78-15323 *
US-PATENT-CLASS-325-63 ..... c 32 N79-20296 *
US-PATENT-CLASS-325-64 ..... c 07 N72-25173 *
US-PATENT-CLASS-325-65 ..... c 07 N70-41331 *
US-PATENT-CLASS-325-65 ..... c 07 N70-41372 *
US-PATENT-CLASS-325-65 ..... c 07 N71-11284 *
US-PATENT-CLASS-325-65 ..... c 32 N77-30308 *
US-PATENT-CLASS-325-66 ..... c 17 N78-17140 *
US-PATENT-CLASS-325-67 ..... c 07 N71-26292 *
US-PATENT-CLASS-325-67 ..... c 10 N73-25241 *
US-PATENT-CLASS-325-67 ..... c 35 N75-21582 *
US-PATENT-CLASS-325-67 ..... c 32 N79-11265 *
US-PATENT-CLASS-325-7 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-8 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-8 ..... c 32 N80-20448 *
US-PATENT-CLASS-325-9 ..... c 07 N73-20174 *
US-PATENT-CLASS-325-9 ..... c 32 N80-20448 *
US-PATENT-CLASS-328-104 ..... c 08 N72-22162 *
US-PATENT-CLASS-328-104 ..... c 10 N73-13235 *
US-PATENT-CLASS-328-106 ..... c 09 N72-22201 *
US-PATENT-CLASS-328-110 ..... c 09 N71-12519 *
US-PATENT-CLASS-328-111 ..... c 60 N77-12721 *
US-PATENT-CLASS-328-115 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-116 ..... c 09 N69-39885 * #
US-PATENT-CLASS-328-120 ..... c 09 N71-27016 *
US-PATENT-CLASS-328-123 ..... c 60 N74-12888 *
US-PATENT-CLASS-328-129 ..... c 14 N73-30386 *

US-PATENT-CLASS-328-133 ..... c 09 N71-24596 *
US-PATENT-CLASS-328-133 ..... c 10 N72-20224 *
US-PATENT-CLASS-328-133 ..... c 33 N75-26243 *
US-PATENT-CLASS-328-133 ..... c 33 N77-13315 *
US-PATENT-CLASS-328-133 ..... c 33 N79-11313 *
US-PATENT-CLASS-328-133 ..... c 33 N84-16454 *
US-PATENT-CLASS-328-134 ..... c 08 N71-18692 *
US-PATENT-CLASS-328-134 ..... c 14 N73-30386 *
US-PATENT-CLASS-328-134 ..... c 33 N76-16331 *
US-PATENT-CLASS-328-134 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-136 ..... c 09 N72-25257 *
US-PATENT-CLASS-328-140 ..... c 09 N72-25257 *
US-PATENT-CLASS-328-142 ..... c 09 N72-21245 *
US-PATENT-CLASS-328-145 ..... c 32 N76-14321 *
US-PATENT-CLASS-328-145 ..... c 09 N72-23173 *
US-PATENT-CLASS-328-145 ..... c 33 N78-32339 *
US-PATENT-CLASS-328-147 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-150 ..... c 33 N78-18308 *
US-PATENT-CLASS-328-151 ..... c 09 N72-22200 *
US-PATENT-CLASS-328-151 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-151 ..... c 33 N81-27396 *
US-PATENT-CLASS-328-151 ..... c 33 N91-14550 *
US-PATENT-CLASS-328-154 ..... c 08 N72-22162 *
US-PATENT-CLASS-328-154 ..... c 10 N73-13235 *
US-PATENT-CLASS-328-154 ..... c 33 N74-22814 *
US-PATENT-CLASS-328-155 ..... c 10 N72-16172 *
US-PATENT-CLASS-328-155 ..... c 09 N72-33204 *
US-PATENT-CLASS-328-155 ..... c 33 N74-17927 *
US-PATENT-CLASS-328-155 ..... c 17 N76-22245 *
US-PATENT-CLASS-328-155 ..... c 32 N88-29076 *
US-PATENT-CLASS-328-160 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-161 ..... c 33 N77-17354 *
US-PATENT-CLASS-328-163 ..... c 33 N79-10338 *
US-PATENT-CLASS-328-164 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-164 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-165 ..... c 09 N71-24806 *
US-PATENT-CLASS-328-165 ..... c 07 N71-33696 *
US-PATENT-CLASS-328-166 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-166 ..... c 33 N82-29539 *
US-PATENT-CLASS-328-167 ..... c 10 N71-22986 *
US-PATENT-CLASS-328-167 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-167 ..... c 10 N72-17171 *
US-PATENT-CLASS-328-167 ..... c 09 N72-21245 *
US-PATENT-CLASS-328-167 ..... c 09 N73-20231 *
US-PATENT-CLASS-328-167 ..... c 08 N73-26175 *
US-PATENT-CLASS-328-167 ..... c 33 N82-24417 *
US-PATENT-CLASS-328-167 ..... c 33 N85-29145 *
US-PATENT-CLASS-328-168 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-16 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-171 ..... c 10 N71-24844 *
US-PATENT-CLASS-328-172 ..... c 32 N74-19788 *
US-PATENT-CLASS-328-172 ..... c 33 N78-17294 *
US-PATENT-CLASS-328-186 ..... c 09 N72-17157 *
US-PATENT-CLASS-328-187 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-189 ..... c 14 N72-27408 *
US-PATENT-CLASS-328-190 ..... c 33 N76-14371 *
US-PATENT-CLASS-328-192 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-1 ..... c 23 N71-16099 *
US-PATENT-CLASS-328-1 ..... c 10 N71-19472 *
US-PATENT-CLASS-328-1 ..... c 09 N72-22200 *
US-PATENT-CLASS-328-207 ..... c 09 N71-28468 *
US-PATENT-CLASS-328-207 ..... c 10 N71-28860 *
US-PATENT-CLASS-328-207 ..... c 09 N71-29139 *
US-PATENT-CLASS-328-207 ..... c 10 N72-20221 *
US-PATENT-CLASS-328-20 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-230 ..... c 35 N84-12444 *
US-PATENT-CLASS-328-233 ..... c 10 N71-22962 *
US-PATENT-CLASS-328-233 ..... c 75 N75-13625 *
US-PATENT-CLASS-328-233 ..... c 37 N78-17386 *
US-PATENT-CLASS-328-24 ..... c 09 N72-33204 *
US-PATENT-CLASS-328-28 ..... c 33 N87-21235 *
US-PATENT-CLASS-328-37 ..... c 08 N71-12503 *
US-PATENT-CLASS-328-37 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-37 ..... c 33 N76-14373 *
US-PATENT-CLASS-328-37 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-38 ..... c 10 N72-20223 *
US-PATENT-CLASS-328-38 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-39 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-4-8 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-41 ..... c 33 N75-31330 *
US-PATENT-CLASS-328-42 ..... c 08 N71-19432 *
US-PATENT-CLASS-328-44 ..... c 08 N71-29034 *
US-PATENT-CLASS-328-48 ..... c 14 N73-30386 *
US-PATENT-CLASS-328-48 ..... c 33 N74-10223 *
US-PATENT-CLASS-328-48 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-49 ..... c 10 N71-27137 *
US-PATENT-CLASS-328-55 ..... c 33 N81-17349 *
US-PATENT-CLASS-328-58 ..... c 08 N71-29138 *
US-PATENT-CLASS-328-58 ..... c 33 N74-32711 *
US-PATENT-CLASS-328-58 ..... c 33 N75-18479 *
US-PATENT-CLASS-328-59 ..... c 33 N75-19515 *
US-PATENT-CLASS-328-61 ..... c 09 N71-23525 *
US-PATENT-CLASS-328-61 ..... c 10 N73-20254 *
US-PATENT-CLASS-328-61 ..... c 35 N75-30504 *
US-PATENT-CLASS-328-62 ..... c 35 N75-30504 *
US-PATENT-CLASS-328-63 ..... c 33 N76-14371 *

US-PATENT-CLASS-328-63 ..... c 33 N77-24375 *
US-PATENT-CLASS-328-67 ..... c 10 N71-28960 *
US-PATENT-CLASS-328-67 ..... c 33 N82-24418 *
US-PATENT-CLASS-328-67 ..... c 33 N88-24862 *
US-PATENT-CLASS-328-71 ..... c 60 N81-15706 *
US-PATENT-CLASS-328-92 ..... c 10 N71-28860 *
US-PATENT-CLASS-329-104 ..... c 07 N71-11282 *
US-PATENT-CLASS-329-104 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-104 ..... c 32 N77-24331 *
US-PATENT-CLASS-329-107 ..... c 35 N81-19427 *
US-PATENT-CLASS-329-107 ..... c 32 N87-21207 *
US-PATENT-CLASS-329-119 ..... c 33 N77-21314 *
US-PATENT-CLASS-329-120 ..... c 07 N73-30113 *
US-PATENT-CLASS-329-122 ..... c 10 N71-19469 *
US-PATENT-CLASS-329-122 ..... c 07 N73-28012 *
US-PATENT-CLASS-329-122 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-122 ..... c 32 N74-20811 *
US-PATENT-CLASS-329-122 ..... c 33 N77-14334 *
US-PATENT-CLASS-329-122 ..... c 32 N77-24331 *
US-PATENT-CLASS-329-122 ..... c 32 N79-14267 *
US-PATENT-CLASS-329-122 ..... c 33 N81-33405 *
US-PATENT-CLASS-329-124 ..... c 33 N77-14334 *
US-PATENT-CLASS-329-124 ..... c 33 N78-32338 *
US-PATENT-CLASS-329-124 ..... c 32 N84-27952 *
US-PATENT-CLASS-329-126 ..... c 33 N74-12887 *
US-PATENT-CLASS-329-140 ..... c 07 N71-24583 *
US-PATENT-CLASS-329-145 ..... c 07 N71-33696 *
US-PATENT-CLASS-329-161 ..... c 07 N72-20141 *
US-PATENT-CLASS-329-162 ..... c 07 N72-20141 *
US-PATENT-CLASS-329-166 ..... c 33 N75-19520 *
US-PATENT-CLASS-329-166 ..... c 33 N75-25041 *
US-PATENT-CLASS-329-204 ..... c 33 N75-19520 *
US-PATENT-CLASS-329-204 ..... c 33 N75-25041 *
US-PATENT-CLASS-329-205 ..... c 33 N77-21314 *
US-PATENT-CLASS-329-304 ..... c 32 N91-25318 *
US-PATENT-CLASS-329-304 ..... c 32 N91-27439 *
US-PATENT-CLASS-329-306 ..... c 04 N91-14321 *
US-PATENT-CLASS-329-349 ..... c 33 N91-26438 *
US-PATENT-CLASS-329-361 ..... c 33 N91-26438 *
US-PATENT-CLASS-329-363 ..... c 33 N91-14550 *
US-PATENT-CLASS-329-50 ..... c 33 N74-17930 *
US-PATENT-CLASS-329-50 ..... c 35 N81-19427 *
US-PATENT-CLASS-33.8UB ..... c 27 N81-15104 *
US-PATENT-CLASS-33-DIG.13 .... c 35 N75-12273 *
US-PATENT-CLASS-33-DIG.3 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-1G ..... c 37 N76-21554 *
US-PATENT-CLASS-33-1M ..... c 35 N74-32877 *
US-PATENT-CLASS-33-1N ..... c 43 N79-26439 *
US-PATENT-CLASS-33-1Q ..... c 43 N79-26439 *
US-PATENT-CLASS-33-1SA ..... c 14 N72-28436 *
US-PATENT-CLASS-33-1SA ..... c 19 N74-21015 *
US-PATENT-CLASS-33-125R ..... c 52 N80-27072 *
US-PATENT-CLASS-33-125 ..... c 14 N72-11364 *
US-PATENT-CLASS-33-143C ..... c 52 N82-22875 *
US-PATENT-CLASS-33-147D ..... c 37 N88-14361 *
US-PATENT-CLASS-33-147 ..... c 15 N71-19489 *
US-PATENT-CLASS-33-148D ..... c 35 N75-19615 *
US-PATENT-CLASS-33-149 ..... c 14 N71-17657 *
US-PATENT-CLASS-33-15A ..... c 08 N72-11172 *
US-PATENT-CLASS-33-155R ..... c 33 N76-19338 *
US-PATENT-CLASS-33-169F ..... c 35 N84-28018 *
US-PATENT-CLASS-33-174B ..... c 37 N76-21554 *
US-PATENT-CLASS-33-174D ..... c 33 N76-19338 *
US-PATENT-CLASS-33-174L ..... c 43 N79-26439 *
US-PATENT-CLASS-33-174S ..... c 14 N72-22445 *
US-PATENT-CLASS-33-174 ..... c 14 N69-21363 * #
US-PATENT-CLASS-33-174 ..... c 14 N71-17658 *
US-PATENT-CLASS-33-174 ..... c 14 N71-24693 *
US-PATENT-CLASS-33-180R ..... c 35 N75-12273 *
US-PATENT-CLASS-33-189 ..... c 15 N71-26145 *
US-PATENT-CLASS-33-1 ..... c 14 N70-36907 *
US-PATENT-CLASS-33-204C ..... c 08 N72-11172 *
US-PATENT-CLASS-33-207 ..... c 15 N71-15571 *
US-PATENT-CLASS-33-23R ..... c 35 N74-32877 *
US-PATENT-CLASS-33-261 ..... c 35 N91-14591 *
US-PATENT-CLASS-33-263 ..... c 09 N91-14356 *
US-PATENT-CLASS-33-268 ..... c 89 N74-30886 *
US-PATENT-CLASS-33-285 ..... c 36 N74-21091 *
US-PATENT-CLASS-33-286 ..... c 18 N76-14186 *
US-PATENT-CLASS-33-293 ..... c 35 N84-16523 *
US-PATENT-CLASS-33-31 ..... c 14 N71-21079 *
US-PATENT-CLASS-33-322 ..... c 06 N83-33882 *
US-PATENT-CLASS-33-348 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-356 ..... c 04 N76-20114 *
US-PATENT-CLASS-33-356 ..... c 04 N77-19056 *
US-PATENT-CLASS-33-356 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-361 ..... c 04 N84-14132 *
US-PATENT-CLASS-33-366 ..... c 35 N78-32395 *
US-PATENT-CLASS-33-46R ..... c 19 N74-21015 *
US-PATENT-CLASS-33-536 ..... c 37 N89-28831 *
US-PATENT-CLASS-33-72 ..... c 15 N72-11386 *
US-PATENT-CLASS-33-75R ..... c 14 N72-28436 *
US-PATENT-CLASS-33-96 ..... c 33 N75-30430 *
US-PATENT-CLASS-330-103 ..... c 32 N74-22096 *
US-PATENT-CLASS-330-107 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-107 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-107 ..... c 33 N84-14421 *
US-PATENT-CLASS-330-107 ..... c 33 N87-22895 *
US-PATENT-CLASS-330-109 ..... c 10 N72-11256 *
US-PATENT-CLASS-330-109 ..... c 10 N72-17171 *
US-PATENT-CLASS-330-109 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-109 ..... c 09 N73-20231 *
US-PATENT-CLASS-330-109 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-109 ..... c 33 N84-14421 *
US-PATENT-CLASS-330-109 ..... c 33 N84-22887 *
US-PATENT-CLASS-330-10 ..... c 33 N74-14939 *
US-PATENT-CLASS-330-110 ..... c 33 N83-36356 *
US-PATENT-CLASS-330-11 ..... c 09 N71-13531 *
US-PATENT-CLASS-330-11 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-11 ..... c 09 N72-17156 *
US-PATENT-CLASS-330-124 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-12 ..... c 10 N72-33230 *
US-PATENT-CLASS-330-13 ..... c 10 N71-26415 *
US-PATENT-CLASS-330-13 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-14 ..... c 09 N70-35440 *
US-PATENT-CLASS-330-14 ..... c 33 N77-14335 *
US-PATENT-CLASS-330-16 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-176 ..... c 10 N72-17171 *
US-PATENT-CLASS-330-18 ..... c 09 N72-17155 *
US-PATENT-CLASS-330-18 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-200 ..... c 07 N71-28430 *
US-PATENT-CLASS-330-207A .... c 33 N75-30429 *
US-PATENT-CLASS-330-20 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-22 ..... c 09 N71-10798 *
US-PATENT-CLASS-330-22 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-24 ..... c 10 N71-33129 *
US-PATENT-CLASS-330-24 ..... c 33 N75-30429 *
US-PATENT-CLASS-330-258 ..... c 33 N86-20670 *
US-PATENT-CLASS-330-261 ..... c 33 N86-20670 *
US-PATENT-CLASS-330-26 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-27R ..... c 10 N72-31273 *
US-PATENT-CLASS-330-277 ..... c 33 N84-22887 *
US-PATENT-CLASS-330-282 ..... c 33 N83-36356 *
US-PATENT-CLASS-330-289 ..... c 33 N83-34191 *
US-PATENT-CLASS-330-289 ..... c 33 N84-16454 *
US-PATENT-CLASS-330-28 ..... c 33 N74-21851 *
US-PATENT-CLASS-330-28 ..... c 33 N77-14335 *
US-PATENT-CLASS-330-290 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-294 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-294 ..... c 33 N84-22887 *
US-PATENT-CLASS-330-294 ..... c 33 N87-22895 *
US-PATENT-CLASS-330-29 ..... c 09 N69-24330 * #
US-PATENT-CLASS-330-29 ..... c 10 N72-28241 *
US-PATENT-CLASS-330-2 ..... c 09 N69-39986 * #
US-PATENT-CLASS-330-2 ..... c 09 N72-25250 *
US-PATENT-CLASS-330-2 ..... c 33 N78-10375 *
US-PATENT-CLASS-330-2 ..... c 33 N79-22373 *
US-PATENT-CLASS-330-30D ..... c 10 N72-20221 *
US-PATENT-CLASS-330-30D ..... c 09 N73-20232 *
US-PATENT-CLASS-330-302 ..... c 33 N85-29145 *
US-PATENT-CLASS-330-306 ..... c 33 N82-24417 *
US-PATENT-CLASS-330-306 ..... c 33 N85-29145 *
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US-PATENT-CLASS-330-30 ..... c 09 N71-19516 *
US-PATENT-CLASS-330-30 ..... c 09 N71-27016 *
US-PATENT-CLASS-330-310 ..... c 33 N83-34191 *
US-PATENT-CLASS-330-311 ..... c 33 N86-20670 *
US-PATENT-CLASS-330-31 ..... c 10 N71-26331 *
US-PATENT-CLASS-330-31 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-35 ..... c 09 N72-17156 *
US-PATENT-CLASS-330-35 ..... c 09 N73-20232 *
US-PATENT-CLASS-330-35 ..... c 33 N74-14939 *
US-PATENT-CLASS-330-4.3 ..... c 16 N73-32391 *
US-PATENT-CLASS-330-4.3 ..... c 36 N75-19655 *
US-PATENT-CLASS-330-4.3 ..... c 36 N75-27364 *
US-PATENT-CLASS-330-4.3 ..... c 36 N75-32441 *
US-PATENT-CLASS-330-4.3 ..... c 36 N76-29575 *
US-PATENT-CLASS-330-4.3 ..... c 36 N77-25502 *
US-PATENT-CLASS-330-4.3 ..... c 73 N78-19920 *
US-PATENT-CLASS-330-4.3 ..... c 36 N82-28616 *
US-PATENT-CLASS-330-4.5 ..... c 09 N72-25258 *
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US-PATENT-CLASS-330-43 ..... c 33 N82-26568 *
US-PATENT-CLASS-330-43 ..... c 33 N86-21742 *
US-PATENT-CLASS-330-49 ..... c 14 N70-35220 *
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US-PATENT-CLASS-330-4 ..... c 16 N72-28521 *
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US-PATENT-CLASS-330-4 ..... c 36 N80-18372 *
US-PATENT-CLASS-330-4 ..... c 36 N83-35350 *
US-PATENT-CLASS-330-5.5 ..... c 71 N77-26919 *
US-PATENT-CLASS-330-51 ..... c 10 N71-28859 *
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US-PATENT-CLASS-330-61 ..... c 09 N71-23097 *
US-PATENT-CLASS-330-63 ..... c 33 N75-30428 *
US-PATENT-CLASS-330-69 ..... c 33 N74-32712 *
US-PATENT-CLASS-330-69 ..... c 33 N75-19518 *
US-PATENT-CLASS-330-6 ..... c 35 N75-13213 *
US-PATENT-CLASS-330-70CR .... c 10 N73-27171 *
US-PATENT-CLASS-330-70R ..... c 09 N72-21245 *
US-PATENT-CLASS-330-80T ..... c 09 N73-20232 *
US-PATENT-CLASS-330-85 ..... c 09 N72-21245 *
US-PATENT-CLASS-330-86 ..... c 09 N73-20231 *
US-PATENT-CLASS-330-86 ..... c 33 N75-19518 *
US-PATENT-CLASS-330-86 ..... c 33 N79-22373 *
US-PATENT-CLASS-330-8 ..... c 33 N81-24338 *
US-PATENT-CLASS-330-8 ..... c 33 N89-29681 *
US-PATENT-CLASS-330-94 ..... c 10 N72-17172 *
US-PATENT-CLASS-330-9 ..... c 33 N74-14939 *
US-PATENT-CLASS-331-DIG.1 .... c 36 N75-30524 *
US-PATENT-CLASS-331-DIG.2 .... c 33 N81-33405 *
US-PATENT-CLASS-331-1-A ..... c 33 N86-20668 *
US-PATENT-CLASS-331-1A ..... c 33 N74-10194 *
US-PATENT-CLASS-331-1A ..... c 33 N75-25040 *
US-PATENT-CLASS-331-1A ..... c 33 N79-11313 *
US-PATENT-CLASS-331-107A .... c 71 N77-26919 *
US-PATENT-CLASS-331-107G .... c 26 N72-25679 *
US-PATENT-CLASS-331-107G .... c 09 N73-15235 *
US-PATENT-CLASS-331-107 ..... c 09 N71-18721 *
US-PATENT-CLASS-331-107 ..... c 26 N72-21701 *
US-PATENT-CLASS-331-108A .... c 33 N74-20862 *
US-PATENT-CLASS-331-108D .... c 33 N86-32624 *
US-PATENT-CLASS-331-109 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-109 ..... c 33 N74-26732 *
US-PATENT-CLASS-331-10 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-111 ..... c 10 N71-23669 *
US-PATENT-CLASS-331-111 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-113A .... c 09 N72-25253 *
US-PATENT-CLASS-331-113A .... c 09 N72-25254 *
US-PATENT-CLASS-331-113A .... c 33 N74-11049 *
US-PATENT-CLASS-331-113R .... c 33 N82-18494 *
US-PATENT-CLASS-331-113 ..... c 09 N70-38995 *
US-PATENT-CLASS-331-113 ..... c 10 N71-19418 *
US-PATENT-CLASS-331-113 ..... c 09 N71-19470 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25882 *
US-PATENT-CLASS-331-113 ..... c 10 N71-25950 *
US-PATENT-CLASS-331-113 ..... c 09 N71-28810 *
US-PATENT-CLASS-331-114 ..... c 33 N77-17351 *
US-PATENT-CLASS-331-115 ..... c 10 N72-33230 *
US-PATENT-CLASS-331-115 ..... c 33 N74-20862 *
US-PATENT-CLASS-331-116-FE . c 33 N86-19515 *
US-PATENT-CLASS-331-116-R ... c 33 N87-21232 *
US-PATENT-CLASS-331-116FE .. c 33 N90-23635 *
US-PATENT-CLASS-331-116R .... c 10 N72-33230 *
US-PATENT-CLASS-331-116R .... c 33 N74-20862 *
US-PATENT-CLASS-331-116R .... c 33 N86-32624 *
US-PATENT-CLASS-331-117-FE . c 33 N86-19515 *
US-PATENT-CLASS-331-117-R ... c 33 N87-21232 *
US-PATENT-CLASS-331-117FE .. c 33 N90-23635 *
US-PATENT-CLASS-331-117R .... c 33 N74-26732 *
US-PATENT-CLASS-331-117 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-117 ..... c 09 N72-22203 *
US-PATENT-CLASS-331-12 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-135 ..... c 10 N73-32145 *
US-PATENT-CLASS-331-14 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-14 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-14 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-159 ..... c 33 N74-20862 *
US-PATENT-CLASS-331-162 ..... c 33 N88-26596 *
US-PATENT-CLASS-331-177-R ... c 33 N87-22895 *
US-PATENT-CLASS-331-177R .... c 09 N73-15235 *
US-PATENT-CLASS-331-177V .... c 33 N77-17351 *
US-PATENT-CLASS-331-177 ..... c 10 N71-27271 *
US-PATENT-CLASS-331-178 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-17 ..... c 10 N71-20852 *
US-PATENT-CLASS-331-17 ..... c 10 N73-27171 *
US-PATENT-CLASS-331-17 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-17 ..... c 32 N88-29076 *
US-PATENT-CLASS-331-183 ..... c 33 N74-26732 *
US-PATENT-CLASS-331-18 ..... c 10 N71-26374 *
US-PATENT-CLASS-331-18 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-18 ..... c 33 N75-25040 *
US-PATENT-CLASS-331-1 ..... c 52 N91-14709 *
US-PATENT-CLASS-331-23 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-23 ..... c 33 N77-14334 *
US-PATENT-CLASS-331-23 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-25 ..... c 10 N73-27171 *
US-PATENT-CLASS-331-25 ..... c 33 N75-25040 *
US-PATENT-CLASS-331-25 ..... c 32 N88-29076 *
US-PATENT-CLASS-331-27 ..... c 33 N79-11313 *
US-PATENT-CLASS-331-2 ..... c 33 N86-20668 *
US-PATENT-CLASS-331-30 ..... c 09 N72-21247 *
US-PATENT-CLASS-331-31 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-34 ..... c 07 N72-11150 *

US-PATENT-CLASS-331-36C ..... c 33 N77-14334 *
US-PATENT-CLASS-331-36C ..... c 33 N85-29143 *
US-PATENT-CLASS-331-3 ..... c 35 N76-15436 *
US-PATENT-CLASS-331-3 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-3 ..... c 33 N88-26596 *
US-PATENT-CLASS-331-44 ..... c 14 N72-27408 *
US-PATENT-CLASS-331-45 ..... c 10 N73-16206 *
US-PATENT-CLASS-331-48 ..... c 33 N81-17349 *
US-PATENT-CLASS-331-4 ..... c 09 N69-21543 * #
US-PATENT-CLASS-331-4 ..... c 33 N74-10194 *
US-PATENT-CLASS-331-4 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-56 ..... c 33 N87-21232 *
US-PATENT-CLASS-331-62 ..... c 33 N74-11049 *
US-PATENT-CLASS-331-64 ..... c 33 N78-32338 *
US-PATENT-CLASS-331-65 ..... c 35 N75-29380 *
US-PATENT-CLASS-331-65 ..... c 33 N80-23559 *
US-PATENT-CLASS-331-66 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-66 ..... c 33 N86-32624 *
US-PATENT-CLASS-331-78 ..... c 09 N71-23598 *
US-PATENT-CLASS-331-78 ..... c 08 N73-12175 *
US-PATENT-CLASS-331-78 ..... c 33 N75-19515 *
US-PATENT-CLASS-331-7 ..... c 07 N72-11150 *
US-PATENT-CLASS-331-82 ..... c 33 N84-27974 *
US-PATENT-CLASS-331-82 ..... c 33 N90-22724 *
US-PATENT-CLASS-331-90 ..... c 09 N73-15235 *
US-PATENT-CLASS-331-94.1 ..... c 33 N85-29143 *
US-PATENT-CLASS-331-94.1 ..... c 33 N88-26596 *
US-PATENT-CLASS-331-94.5A ... c 16 N73-33397 *
US-PATENT-CLASS-331-94.5A ... c 36 N75-27364 *
US-PATENT-CLASS-331-94.5C ... c 36 N75-31427 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-18428 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-24553 *
US-PATENT-CLASS-331-94.5C ... c 36 N76-29575 *
US-PATENT-CLASS-331-94.5C ... c 36 N80-14384 *
US-PATENT-CLASS-331-94.5C ... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5D ... c 33 N74-20859 *
US-PATENT-CLASS-331-94.5D ... c 36 N77-19416 *
US-PATENT-CLASS-331-94.5D ... c 36 N77-25502 *
US-PATENT-CLASS-331-94.5D ... c 35 N77-27366 *
US-PATENT-CLASS-331-94.5D ... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5G ... c 36 N75-31426 *
US-PATENT-CLASS-331-94.5G ... c 36 N77-19416 *
US-PATENT-CLASS-331-94.5G ... c 36 N78-17366 *
US-PATENT-CLASS-331-94.5G ... c 36 N78-27402 *
US-PATENT-CLASS-331-94.5G ... c 36 N79-18307 *
US-PATENT-CLASS-331-94.5G ... c 33 N82-24418 *
US-PATENT-CLASS-331-94.5K ... c 36 N74-15145 *
US-PATENT-CLASS-331-94.5L .... c 72 N79-13826 *
US-PATENT-CLASS-331-94.5M ... c 36 N75-19654 *
US-PATENT-CLASS-331-94.5PE . c 36 N75-32441 *
US-PATENT-CLASS-331-94.5PE . c 36 N77-19416 *
US-PATENT-CLASS-331-94.5PE . c 36 N78-27402 *
US-PATENT-CLASS-331-94.5PE . c 72 N79-13826 *
US-PATENT-CLASS-331-94.5PE . c 33 N82-24418 *
US-PATENT-CLASS-331-94.5P .... c 36 N75-19655 *
US-PATENT-CLASS-331-94.5P .... c 36 N75-31426 *
US-PATENT-CLASS-331-94.5P .... c 36 N77-25502 *
US-PATENT-CLASS-331-94.5P .... c 36 N78-27402 *
US-PATENT-CLASS-331-94.5P .... c 72 N79-13826 *
US-PATENT-CLASS-331-94.5P .... c 36 N79-18307 *
US-PATENT-CLASS-331-94.5P .... c 36 N80-14384 *
US-PATENT-CLASS-331-94.5P .... c 36 N82-13415 *
US-PATENT-CLASS-331-94.5S .... c 36 N74-15145 *
US-PATENT-CLASS-331-94.5S .... c 36 N77-25499 *
US-PATENT-CLASS-331-94.5T .... c 35 N77-27366 *
US-PATENT-CLASS-331-94.5T .... c 36 N78-17366 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-18614 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-24832 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-26722 *
US-PATENT-CLASS-331-94.5 ..... c 15 N71-27135 *
US-PATENT-CLASS-331-94.5 ..... c 23 N71-29125 *
US-PATENT-CLASS-331-94.5 ..... c 16 N71-33410 *
US-PATENT-CLASS-331-94.5 ..... c 16 N72-12440 *
US-PATENT-CLASS-331-94.5 ..... c 25 N72-24753 *
US-PATENT-CLASS-331-94.5 ..... c 16 N72-25485 *
US-PATENT-CLASS-331-94.5 ..... c 07 N73-26119 *
US-PATENT-CLASS-331-94.5 ..... c 09 N73-32111 *
US-PATENT-CLASS-331-94.5 ..... c 16 N73-32391 *
US-PATENT-CLASS-331-94.5 ..... c 36 N76-18427 *
US-PATENT-CLASS-331-94-5G ... c 36 N75-32441 *
US-PATENT-CLASS-331-94 ..... c 16 N70-41578 *
US-PATENT-CLASS-331-94 ..... c 16 N72-28521 *
US-PATENT-CLASS-331-94 ..... c 16 N73-13489 *
US-PATENT-CLASS-331-94 ..... c 35 N76-15436 *
US-PATENT-CLASS-331-94 ..... c 36 N76-31512 *
US-PATENT-CLASS-331-94 ..... c 36 N79-14362 *
US-PATENT-CLASS-331-94 ..... c 36 N80-18372 *
US-PATENT-CLASS-331-96 ..... c 33 N85-29143 *
US-PATENT-CLASS-332-10 ..... c 08 N71-29138 *
US-PATENT-CLASS-332-11D ..... c 35 N74-17885 *
US-PATENT-CLASS-332-16 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-18 ..... c 33 N77-17351 *
US-PATENT-CLASS-332-19 ..... c 10 N71-23544 *
US-PATENT-CLASS-332-1 ..... c 10 N71-23084 *
US-PATENT-CLASS-332-21 ..... c 08 N72-25208 *
US-PATENT-CLASS-332-22 ..... c 32 N77-14292 *
US-PATENT-CLASS-332-22 ..... c 33 N81-15192 *
US-PATENT-CLASS-332-23-A ..... c 32 N87-25511 *
US-PATENT-CLASS-332-23R ..... c 32 N77-14292 *
US-PATENT-CLASS-332-23R ..... c 33 N81-15192 *
US-PATENT-CLASS-332-29 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-2 ..... c 35 N75-19614 *
US-PATENT-CLASS-332-30V ..... c 33 N77-14334 *
US-PATENT-CLASS-332-30V ..... c 33 N77-17351 *
US-PATENT-CLASS-332-30 ..... c 10 N71-27271 *
US-PATENT-CLASS-332-30 ..... c 07 N71-28429 *
US-PATENT-CLASS-332-30 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-31 ..... c 08 N71-12500 *
US-PATENT-CLASS-332-31 ..... c 26 N72-21701 *
US-PATENT-CLASS-332-47 ..... c 33 N75-19520 *
US-PATENT-CLASS-332-51W ..... c 07 N72-20141 *
US-PATENT-CLASS-332-52 ..... c 33 N77-21314 *
US-PATENT-CLASS-332-7.51 ..... c 16 N72-25485 *
US-PATENT-CLASS-332-7.51 ..... c 07 N73-26119 *
US-PATENT-CLASS-332-7.51 ..... c 33 N74-20859 *
US-PATENT-CLASS-332-7.51 ..... c 36 N76-18427 *
US-PATENT-CLASS-332-7.5 ..... c 36 N75-15029 *
US-PATENT-CLASS-332-7.5 ..... c 36 N78-18410 *
US-PATENT-CLASS-332-7.5 ..... c 36 N83-35350 *
US-PATENT-CLASS-332-751 ..... c 36 N80-16321 *
US-PATENT-CLASS-332-9R ..... c 08 N71-29138 *
US-PATENT-CLASS-332-9 ..... c 07 N71-12390 *
US-PATENT-CLASS-333-104 ..... c 33 N82-16340 *
US-PATENT-CLASS-333-12 ..... c 32 N80-32605 *
US-PATENT-CLASS-333-12 ..... c 33 N81-27397 *
US-PATENT-CLASS-333-14 ..... c 32 N74-19788 *
US-PATENT-CLASS-333-162 ..... c 33 N84-16452 *
US-PATENT-CLASS-333-162 ..... c 33 N84-27974 *
US-PATENT-CLASS-333-16 ..... c 33 N74-17927 *
US-PATENT-CLASS-333-17R ..... c 33 N78-32340 *
US-PATENT-CLASS-333-17 ..... c 44 N74-19870 *
US-PATENT-CLASS-333-18 ..... c 33 N74-17927 *
US-PATENT-CLASS-333-18 ..... c 32 N76-21366 *
US-PATENT-CLASS-333-204 ..... c 33 N81-17348 *
US-PATENT-CLASS-333-20 ..... c 33 N82-24418 *
US-PATENT-CLASS-333-21A ..... c 07 N71-33606 *
US-PATENT-CLASS-333-21R ..... c 33 N75-30430 *
US-PATENT-CLASS-333-214 ..... c 33 N87-22895 *
US-PATENT-CLASS-333-217 ..... c 33 N87-22895 *
US-PATENT-CLASS-333-21 ..... c 07 N71-10676 *
US-PATENT-CLASS-333-22F ..... c 32 N83-27085 *
US-PATENT-CLASS-333-231 ..... c 33 N85-29143 *
US-PATENT-CLASS-333-24.2 ..... c 36 N83-35350 *
US-PATENT-CLASS-333-24R ..... c 09 N72-29172 *
US-PATENT-CLASS-333-24R ..... c 36 N80-18372 *
US-PATENT-CLASS-333-246 ..... c 33 N82-16340 *
US-PATENT-CLASS-333-247 ..... c 33 N91-14552 *
US-PATENT-CLASS-333-252 ..... c 32 N80-32605 *
US-PATENT-CLASS-333-254 ..... c 32 N83-27085 *
US-PATENT-CLASS-333-262 ..... c 33 N80-18285 *
US-PATENT-CLASS-333-30 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-6 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-70CR .... c 10 N72-17171 *
US-PATENT-CLASS-333-70R ..... c 32 N77-18307 *
US-PATENT-CLASS-333-72 ..... c 10 N71-25900 *
US-PATENT-CLASS-333-72 ..... c 71 N77-26919 *
US-PATENT-CLASS-333-73R ..... c 09 N73-26195 *
US-PATENT-CLASS-333-73S ..... c 09 N73-26195 *
US-PATENT-CLASS-333-73W ..... c 07 N72-20141 *
US-PATENT-CLASS-333-73 ..... c 07 N69-24323 * #
US-PATENT-CLASS-333-73 ..... c 09 N71-23573 *
US-PATENT-CLASS-333-75 ..... c 32 N77-18307 *
US-PATENT-CLASS-333-76 ..... c 32 N77-18307 *
US-PATENT-CLASS-333-79 ..... c 10 N70-41964 *
US-PATENT-CLASS-333-79 ..... c 09 N72-25256 *
US-PATENT-CLASS-333-7 ..... c 07 N71-33606 *
US-PATENT-CLASS-333-7 ..... c 07 N72-25170 *
US-PATENT-CLASS-333-80R ..... c 33 N74-32712 *
US-PATENT-CLASS-333-80T ..... c 10 N72-33230 *
US-PATENT-CLASS-333-80 ..... c 09 N71-12517 *
US-PATENT-CLASS-333-80 ..... c 09 N72-21245 *
US-PATENT-CLASS-333-81B ..... c 14 N73-13420 *
US-PATENT-CLASS-333-81R ..... c 07 N72-25170 *
US-PATENT-CLASS-333-81R ..... c 33 N78-32340 *
US-PATENT-CLASS-333-81R ..... c 32 N80-14281 *
US-PATENT-CLASS-333-81 ..... c 07 N71-29065 *
US-PATENT-CLASS-333-82A ..... c 09 N73-26195 *
US-PATENT-CLASS-333-82B ..... c 32 N77-18307 *
US-PATENT-CLASS-333-83BT .... c 33 N75-30430 *
US-PATENT-CLASS-333-83R ..... c 36 N74-11313 *
US-PATENT-CLASS-333-83 ..... c 09 N71-24841 *
US-PATENT-CLASS-333-84M ..... c 09 N73-26195 *
US-PATENT-CLASS-333-8 ..... c 07 N69-24334 * #
US-PATENT-CLASS-333-95 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-96 ..... c 09 N71-20445 *
US-PATENT-CLASS-333-96 ..... c 07 N71-27191 *
US-PATENT-CLASS-333-97R ..... c 36 N74-11313 *
US-PATENT-CLASS-333-97 ..... c 07 N69-27462 * #
US-PATENT-CLASS-333-98P ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98P ..... c 09 N72-29172 *
US-PATENT-CLASS-333-98R ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98R ..... c 09 N72-29172 *
US-PATENT-CLASS-333-98R ..... c 14 N73-13420 *
US-PATENT-CLASS-333-98R ..... c 33 N75-30430 *
US-PATENT-CLASS-333-98S ..... c 07 N72-25170 *
US-PATENT-CLASS-333-98 ..... c 09 N71-23548 *
US-PATENT-CLASS-333-98 ..... c 09 N71-24808 *
US-PATENT-CLASS-333-99S ..... c 32 N80-32605 *
US-PATENT-CLASS-335-100 ..... c 37 N85-30333 *
US-PATENT-CLASS-335-205 ..... c 09 N72-20199 *
US-PATENT-CLASS-335-216 ..... c 16 N71-28554 *
US-PATENT-CLASS-335-216 ..... c 23 N71-29049 *
US-PATENT-CLASS-335-216 ..... c 26 N73-32571 *
US-PATENT-CLASS-335-216 ..... c 20 N75-24837 *
US-PATENT-CLASS-335-216 ..... c 33 N79-21264 *
US-PATENT-CLASS-335-222 ..... c 35 N84-28017 *
US-PATENT-CLASS-335-229 ..... c 33 N82-24421 *
US-PATENT-CLASS-335-256 ..... c 33 N82-11357 *
US-PATENT-CLASS-335-266 ..... c 33 N82-11357 *
US-PATENT-CLASS-335-266 ..... c 33 N82-24421 *
US-PATENT-CLASS-335-296 ..... c 09 N73-30185 *
US-PATENT-CLASS-335-297 ..... c 09 N73-30185 *
US-PATENT-CLASS-335-300 ..... c 09 N70-41929 *
US-PATENT-CLASS-336-DIG.1 .... c 26 N73-26752 *
US-PATENT-CLASS-336-DIG.1 .... c 33 N79-17133 *
US-PATENT-CLASS-336-120 ..... c 33 N82-24422 *
US-PATENT-CLASS-336-178 ..... c 09 N72-17154 *
US-PATENT-CLASS-336-198 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-198 ..... c 33 N85-29146 *
US-PATENT-CLASS-336-198 ..... c 33 N91-14539 *
US-PATENT-CLASS-336-200 ..... c 26 N73-26752 *
US-PATENT-CLASS-336-205 ..... c 33 N91-14539 *
US-PATENT-CLASS-336-210 ..... c 33 N74-17928 *
US-PATENT-CLASS-336-220 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-229 ..... c 33 N91-14539 *
US-PATENT-CLASS-336-60 ..... c 09 N72-27226 *
US-PATENT-CLASS-336-83 ..... c 33 N82-24422 *
US-PATENT-CLASS-336-84C ..... c 33 N85-29146 *
US-PATENT-CLASS-337-114 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-121 ..... c 09 N71-29035 *
US-PATENT-CLASS-337-140 ..... c 37 N86-19604 *
US-PATENT-CLASS-337-14 ..... c 31 N83-31897 *
US-PATENT-CLASS-337-334 ..... c 37 N77-19458 *
US-PATENT-CLASS-337-354 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-359 ..... c 15 N72-12409 *
US-PATENT-CLASS-337-393 ..... c 37 N87-23970 *
US-PATENT-CLASS-337-75 ..... c 15 N72-12409 *
US-PATENT-CLASS-337 ..... c 25 N79-28253 *
US-PATENT-CLASS-338-100 ..... c 35 N78-17359 *
US-PATENT-CLASS-338-114 ..... c 52 N74-27864 *
US-PATENT-CLASS-338-13 ..... c 24 N75-30260 *
US-PATENT-CLASS-338-162 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-18 ..... c 35 N79-33449 *
US-PATENT-CLASS-338-221 ..... c 33 N91-14537 *
US-PATENT-CLASS-338-229 ..... c 35 N77-24454 *
US-PATENT-CLASS-338-25 ..... c 35 N77-21393 *
US-PATENT-CLASS-338-25 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-275 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-283 ..... c 24 N75-30260 *
US-PATENT-CLASS-338-28 ..... c 35 N77-20400 *
US-PATENT-CLASS-338-28 ..... c 35 N77-24454 *
US-PATENT-CLASS-338-28 ..... c 35 N82-24470 *
US-PATENT-CLASS-338-2 ..... c 33 N75-31329 *
US-PATENT-CLASS-338-2 ..... c 35 N80-20560 *
US-PATENT-CLASS-338-2 ..... c 52 N80-27072 *
US-PATENT-CLASS-338-2 ..... c 35 N84-12443 *
US-PATENT-CLASS-338-309 ..... c 27 N84-33589 *
US-PATENT-CLASS-338-32S ..... c 33 N78-13320 *
US-PATENT-CLASS-338-320 ..... c 33 N74-14935 *
US-PATENT-CLASS-338-32 ..... c 33 N91-14537 *
US-PATENT-CLASS-338-36 ..... c 35 N78-17359 *
US-PATENT-CLASS-338-5 ..... c 32 N71-15974 *
US-PATENT-CLASS-338-5 ..... c 52 N74-27864 *
US-PATENT-CLASS-338-64 ..... c 09 N71-21583 *
US-PATENT-CLASS-338-6 ..... c 35 N76-14430 *
US-PATENT-CLASS-338-6 ..... c 52 N76-29895 *
US-PATENT-CLASS-338-75 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-82 ..... c 09 N71-20842 *
US-PATENT-CLASS-338-89 ..... c 35 N74-32877 *
US-PATENT-CLASS-338-97 ..... c 37 N75-13265 *
US-PATENT-CLASS-338-99 ..... c 35 N78-17359 *
US-PATENT-CLASS-339-143C .... c 33 N76-16332 *
US-PATENT-CLASS-339-143R .... c 09 N72-25256 *
US-PATENT-CLASS-339-147R .... c 09 N72-25256 *
US-PATENT-CLASS-339-150 ..... c 09 N69-21470 * #
US-PATENT-CLASS-339-17M ..... c 37 N76-27567 *
US-PATENT-CLASS-339-17R ..... c 15 N71-29133 *
US-PATENT-CLASS-339-176MF . c 09 N72-28225 *
US-PATENT-CLASS-339-176M .... c 15 N72-17455 *
US-PATENT-CLASS-339-176 ..... c 09 N70-34596 *
US-PATENT-CLASS-339-176 ..... c 09 N70-36494 *
US-PATENT-CLASS-339-177 ..... c 09 N71-20851 *
US-PATENT-CLASS-339-17 ..... c 14 N69-27431 * #
US-PATENT-CLASS-339-17 ..... c 15 N71-17685 *
US-PATENT-CLASS-339-17 ..... c 09 N71-26133 *
US-PATENT-CLASS-339-18C ..... c 37 N76-27567 *
US-PATENT-CLASS-339-198R .... c 33 N76-16332 *
US-PATENT-CLASS-339-218M .... c 09 N72-28225 *

US-PATENT-CLASS-339-242 ..... c 33 N76-16332 *
US-PATENT-CLASS-339-252R .... c 52 N77-14738 *
US-PATENT-CLASS-339-258RR . c 33 N84-14423 *
US-PATENT-CLASS-339-262RR . c 33 N84-14423 *
US-PATENT-CLASS-339-275R .... c 33 N76-16332 *
US-PATENT-CLASS-339-275T .... c 09 N72-20200 *
US-PATENT-CLASS-339-276T .... c 09 N72-20200 *
US-PATENT-CLASS-339-278M .... c 15 N72-17455 *
US-PATENT-CLASS-339-3R ..... c 07 N83-20944 *
US-PATENT-CLASS-339-45M ..... c 15 N72-25450 *
US-PATENT-CLASS-339-46 ..... c 15 N72-17455 *
US-PATENT-CLASS-339-5R ..... c 07 N83-20944 *
US-PATENT-CLASS-339-5 ..... c 15 N71-23049 *
US-PATENT-CLASS-339-64M ..... c 33 N84-14423 *
US-PATENT-CLASS-339-75MP .... c 09 N72-28225 *
US-PATENT-CLASS-339-91B ..... c 15 N72-25450 *
US-PATENT-CLASS-339-91 ..... c 09 N69-21927 * #
US-PATENT-CLASS-339-94M ..... c 09 N72-28225 *
US-PATENT-CLASS-339-95 ..... c 09 N69-39734 * #
US-PATENT-CLASS-339,12R ..... c 52 N77-25772 *
US-PATENT-CLASS-34-155 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-15 ..... c 28 N78-24365 *
US-PATENT-CLASS-34-160 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-162 ..... c 14 N73-28489 *
US-PATENT-CLASS-34-162 ..... c 35 N74-15831 *
US-PATENT-CLASS-34-57A ..... c 35 N83-24828 *
US-PATENT-CLASS-340-12R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-12R ..... c 46 N79-23555 *
US-PATENT-CLASS-340-146.1AL c 08 N72-25210 *
US-PATENT-CLASS-340-146.1AL c 08 N73-12175 *
US-PATENT-CLASS-340-146.1AL c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AQ c 08 N73-12177 *
US-PATENT-CLASS-340-146.1AQ c 32 N74-32598 *
US-PATENT-CLASS-340-146.1AQ c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AV c 08 N73-12177 *
US-PATENT-CLASS-340-146.1AV c 32 N77-12240 *
US-PATENT-CLASS-340-146.1AX c 32 N79-10263 *
US-PATENT-CLASS-340-146.1C . c 07 N73-20176 *
US-PATENT-CLASS-340-146.1E . c 32 N79-10263 *
US-PATENT-CLASS-340-146.1 .... c 09 N71-18843 *
US-PATENT-CLASS-340-146.1 .... c 08 N71-22749 *
US-PATENT-CLASS-340-146.1 .... c 10 N71-26103 *
US-PATENT-CLASS-340-146.1 .... c 08 N71-27255 *
US-PATENT-CLASS-340-146.1 .... c 08 N72-22167 *
US-PATENT-CLASS-340-146.1 .... c 08 N72-25207 *
US-PATENT-CLASS-340-146.1 .... c 07 N73-13149 *
US-PATENT-CLASS-340-146.2 .... c 08 N71-12505 *
US-PATENT-CLASS-340-146.2 .... c 08 N71-23295 *
US-PATENT-CLASS-340-146.3H . c 74 N81-19896 *
US-PATENT-CLASS-340-146.3P . c 43 N77-10584 *
US-PATENT-CLASS-340-146.3Q . c 43 N77-10584 *
US-PATENT-CLASS-340-146.3S . c 74 N81-19896 *
US-PATENT-CLASS-340-146.3Y . c 74 N81-19896 *
US-PATENT-CLASS-340-147C .... c 60 N76-14818 *
US-PATENT-CLASS-340-147R .... c 07 N73-20176 *
US-PATENT-CLASS-340-147R .... c 60 N76-14818 *
US-PATENT-CLASS-340-147SY .. c 17 N76-22245 *
US-PATENT-CLASS-340-147 ..... c 09 N70-33182 *
US-PATENT-CLASS-340-147 ..... c 09 N70-38998 *
US-PATENT-CLASS-340-15.5GC c 14 N73-26432 *
US-PATENT-CLASS-340-150 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-151 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-163 ..... c 07 N73-20176 *
US-PATENT-CLASS-340-164 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-166 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-167 ..... c 07 N72-25173 *
US-PATENT-CLASS-340-171 ..... c 09 N72-22202 *
US-PATENT-CLASS-340-171 ..... c 16 N73-16536 *
US-PATENT-CLASS-340-172.5 .... c 08 N69-21928 * #
US-PATENT-CLASS-340-172.5 .... c 09 N69-24333 * #
US-PATENT-CLASS-340-172.5 .... c 08 N71-12502 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-12506 *
US-PATENT-CLASS-340-172.5 .... c 31 N71-15566 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-19288 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-22707 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-22710 *
US-PATENT-CLASS-340-172.5 .... c 07 N71-24624 *
US-PATENT-CLASS-340-172.5 .... c 08 N71-27255 *
US-PATENT-CLASS-340-172.5 .... c 07 N72-25172 *
US-PATENT-CLASS-340-172.5 .... c 08 N72-25207 *
US-PATENT-CLASS-340-172.5 .... c 09 N72-25248 *
US-PATENT-CLASS-340-172.5 .... c 08 N73-13187 *
US-PATENT-CLASS-340-172.5 .... c 08 N73-26176 *
US-PATENT-CLASS-340-172.5 .... c 60 N76-18800 *
US-PATENT-CLASS-340-172.5 .... c 60 N76-21914 *
US-PATENT-CLASS-340-172.5 .... c 60 N77-12721 *
US-PATENT-CLASS-340-172.5 .... c 60 N77-14751 *
US-PATENT-CLASS-340-172.5 .... c 60 N77-19760 *
US-PATENT-CLASS-340-173.2 .... c 08 N72-21198 *
US-PATENT-CLASS-340-173CA .. c 33 N75-31331 *
US-PATENT-CLASS-340-173CR .. c 60 N74-12888 *
US-PATENT-CLASS-340-173LM .. c 60 N74-12888 *
US-PATENT-CLASS-340-173LM .. c 60 N78-10709 *
US-PATENT-CLASS-340-173LS .. c 08 N72-21198 *
US-PATENT-CLASS-340-173LS .. c 36 N75-19652 *

US-PATENT-CLASS-340-173 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-174.1L .. c 35 N74-11283 *
US-PATENT-CLASS-340-174.1M . c 36 N74-13205 *
US-PATENT-CLASS-340-174.1M . c 35 N78-29421 *
US-PATENT-CLASS-340-174.1M . c 35 N79-16246 *
US-PATENT-CLASS-340-174.1R . c 21 N73-13644 *
US-PATENT-CLASS-340-174.1 .... c 08 N71-21042 *
US-PATENT-CLASS-340-174.1 .... c 07 N71-23001 *
US-PATENT-CLASS-340-174.1 .... c 08 N71-27210 *
US-PATENT-CLASS-340-174AG . c 23 N72-17747 *
US-PATENT-CLASS-340-174CS .. c 08 N72-21199 *
US-PATENT-CLASS-340-174CT .. c 23 N72-17747 *
US-PATENT-CLASS-340-174GA . c 23 N72-17747 *
US-PATENT-CLASS-340-174LC .. c 08 N72-21199 *
US-PATENT-CLASS-340-174MA . c 24 N75-13032 *
US-PATENT-CLASS-340-174M .... c 08 N72-21199 *
US-PATENT-CLASS-340-174SC .. c 23 N72-17747 *
US-PATENT-CLASS-340-174SR .. c 08 N72-21199 *
US-PATENT-CLASS-340-174YC .. c 36 N74-13205 *
US-PATENT-CLASS-340-174YC .. c 35 N78-29421 *
US-PATENT-CLASS-340-174 ..... c 08 N71-12504 *
US-PATENT-CLASS-340-174 ..... c 09 N71-12515 *
US-PATENT-CLASS-340-174 ..... c 08 N71-18595 *
US-PATENT-CLASS-340-174 ..... c 08 N71-18694 *
US-PATENT-CLASS-340-174 ..... c 10 N71-23033 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26418 *
US-PATENT-CLASS-340-174 ..... c 10 N71-26434 *
US-PATENT-CLASS-340-174 ..... c 08 N71-28925 *
US-PATENT-CLASS-340-174 ..... c 10 N71-29135 *
US-PATENT-CLASS-340-177VA .. c 06 N80-18036 *
US-PATENT-CLASS-340-177 ..... c 09 N72-17153 *
US-PATENT-CLASS-340-182 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-183 ..... c 52 N74-26625 *
US-PATENT-CLASS-340-189M .... c 17 N76-29347 *
US-PATENT-CLASS-340-198 ..... c 14 N70-33179 *
US-PATENT-CLASS-340-198 ..... c 07 N71-11298 *
US-PATENT-CLASS-340-200 ..... c 33 N74-27862 *
US-PATENT-CLASS-340-200 ..... c 33 N77-31404 *
US-PATENT-CLASS-340-203 ..... c 09 N72-22202 *
US-PATENT-CLASS-340-203 ..... c 52 N74-26625 *
US-PATENT-CLASS-340-206 ..... c 17 N76-29347 *
US-PATENT-CLASS-340-207P ..... c 17 N76-22245 *
US-PATENT-CLASS-340-207R .... c 52 N74-26625 *
US-PATENT-CLASS-340-207 ..... c 07 N73-25160 *
US-PATENT-CLASS-340-210 ..... c 03 N72-20031 *
US-PATENT-CLASS-340-213.1 .... c 10 N71-19417 *
US-PATENT-CLASS-340-213R .... c 54 N78-32720 *
US-PATENT-CLASS-340-213 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-223 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-224 ..... c 37 N77-19458 *
US-PATENT-CLASS-340-227R .... c 14 N72-25412 *
US-PATENT-CLASS-340-227 ..... c 10 N71-16058 *
US-PATENT-CLASS-340-227 ..... c 14 N71-27186 *
US-PATENT-CLASS-340-228.2 .... c 10 N72-17173 *
US-PATENT-CLASS-340-228S .... c 14 N73-16484 *
US-PATENT-CLASS-340-233 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-235 ..... c 10 N71-26334 *
US-PATENT-CLASS-340-237S .... c 45 N76-17656 *
US-PATENT-CLASS-340-240 ..... c 09 N72-27227 *
US-PATENT-CLASS-340-242 ..... c 35 N75-19612 *
US-PATENT-CLASS-340-248 ..... c 10 N71-27338 *
US-PATENT-CLASS-340-258R .... c 07 N73-25160 *
US-PATENT-CLASS-340-258 ..... c 10 N72-28240 *
US-PATENT-CLASS-340-25 ..... c 14 N73-16483 *
US-PATENT-CLASS-340-262 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-26 ..... c 21 N72-22619 *
US-PATENT-CLASS-340-26 ..... c 04 N82-16059 *
US-PATENT-CLASS-340-27AT .... c 21 N73-14692 *
US-PATENT-CLASS-340-27NA .... c 21 N73-13643 *
US-PATENT-CLASS-340-27NA .... c 06 N82-16075 *
US-PATENT-CLASS-340-27R ..... c 14 N73-16483 *
US-PATENT-CLASS-340-27R ..... c 14 N73-20474 *
US-PATENT-CLASS-340-27SS .... c 35 N78-14364 *
US-PATENT-CLASS-340-271 ..... c 35 N77-30436 *
US-PATENT-CLASS-340-277 ..... c 10 N73-30205 *
US-PATENT-CLASS-340-279 ..... c 05 N72-16015 *
US-PATENT-CLASS-340-279 ..... c 10 N73-30205 *
US-PATENT-CLASS-340-279 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-285 ..... c 14 N71-25901 *
US-PATENT-CLASS-340-285 ..... c 54 N78-32720 *
US-PATENT-CLASS-340-309.1 .... c 54 N78-32720 *
US-PATENT-CLASS-340-309.4 .... c 33 N81-14221 *
US-PATENT-CLASS-340-310A .... c 33 N81-14221 *
US-PATENT-CLASS-340-310R .... c 33 N81-14221 *
US-PATENT-CLASS-340-324AD .. c 33 N75-19517 *
US-PATENT-CLASS-340-324A .... c 09 N72-25248 *
US-PATENT-CLASS-340-324R .... c 26 N72-25680 *
US-PATENT-CLASS-340-324 ..... c 08 N71-12507 *
US-PATENT-CLASS-340-324 ..... c 09 N71-33519 *
US-PATENT-CLASS-340-332 ..... c 09 N72-25250 *
US-PATENT-CLASS-340-336 ..... c 09 N71-33519 *
US-PATENT-CLASS-340-33 ..... c 21 N73-13643 *
US-PATENT-CLASS-340-347AD .. c 14 N71-28991 *
US-PATENT-CLASS-340-347AD .. c 08 N72-21200 *
US-PATENT-CLASS-340-347AD .. c 08 N72-22163 *
US-PATENT-CLASS-340-347AD .. c 08 N72-22166 *

US-PATENT-CLASS-340-347AD .. c 08 N72-31226 *
US-PATENT-CLASS-340-347AD .. c 08 N73-20217 *
US-PATENT-CLASS-340-347AD .. c 35 N74-17885 *
US-PATENT-CLASS-340-347AD .. c 35 N74-32877 *
US-PATENT-CLASS-340-347AD .. c 33 N76-18345 *
US-PATENT-CLASS-340-347AD .. c 60 N77-32731 *
US-PATENT-CLASS-340-347CC .. c 31 N86-29055 *
US-PATENT-CLASS-340-347DA .. c 08 N71-27057 *
US-PATENT-CLASS-340-347DA .. c 08 N72-20176 *
US-PATENT-CLASS-340-347DA .. c 08 N72-25206 *
US-PATENT-CLASS-340-347DA .. c 08 N73-32081 *
US-PATENT-CLASS-340-347DD .. c 10 N71-33407 *
US-PATENT-CLASS-340-347DD .. c 08 N72-18184 *
US-PATENT-CLASS-340-347DD .. c 08 N72-20176 *
US-PATENT-CLASS-340-347DD .. c 08 N72-21197 *
US-PATENT-CLASS-340-347DD .. c 08 N73-12176 *
US-PATENT-CLASS-340-347DD .. c 60 N76-23850 *
US-PATENT-CLASS-340-347DD .. c 32 N77-12239 *
US-PATENT-CLASS-340-347DD .. c 60 N78-17691 *
US-PATENT-CLASS-340-347DD .. c 60 N79-20751 *
US-PATENT-CLASS-340-347DD .. c 33 N82-26570 *
US-PATENT-CLASS-340-347DD .. c 32 N86-27513 *
US-PATENT-CLASS-340-347P ..... c 60 N76-23850 *
US-PATENT-CLASS-340-347P ..... c 35 N77-30436 *
US-PATENT-CLASS-340-347R .... c 08 N72-22165 *
US-PATENT-CLASS-340-347SH .. c 33 N77-31404 *
US-PATENT-CLASS-340-347SY .. c 62 N76-31946 *
US-PATENT-CLASS-340-347SY .. c 35 N77-30436 *
US-PATENT-CLASS-340-347SY .. c 31 N86-29055 *
US-PATENT-CLASS-340-347 ..... c 08 N70-35423 *
US-PATENT-CLASS-340-347 ..... c 08 N70-40125 *
US-PATENT-CLASS-340-347 ..... c 08 N71-12501 *
US-PATENT-CLASS-340-347 ..... c 08 N71-18594 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19435 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19544 *
US-PATENT-CLASS-340-347 ..... c 08 N71-19687 *
US-PATENT-CLASS-340-347 ..... c 08 N71-24650 *
US-PATENT-CLASS-340-347 ..... c 10 N71-25917 *
US-PATENT-CLASS-340-347 ..... c 10 N71-26544 *
US-PATENT-CLASS-340-347 ..... c 08 N73-28045 *
US-PATENT-CLASS-340-348 ..... c 08 N72-22167 *
US-PATENT-CLASS-340-38P ..... c 66 N76-19888 *
US-PATENT-CLASS-340-403 ..... c 10 N71-27272 *
US-PATENT-CLASS-340-407 ..... c 71 N74-21014 *
US-PATENT-CLASS-340-407 ..... c 82 N87-29372 *
US-PATENT-CLASS-340-412 ..... c 10 N71-24798 *
US-PATENT-CLASS-340-415 ..... c 10 N73-32144 *
US-PATENT-CLASS-340-418 ..... c 14 N73-16484 *
US-PATENT-CLASS-340-5C ..... c 14 N73-27379 *
US-PATENT-CLASS-340-5H ..... c 32 N77-21267 *
US-PATENT-CLASS-340-5R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-518 ..... c 35 N83-34272 *
US-PATENT-CLASS-340-555 ..... c 74 N85-22139 *
US-PATENT-CLASS-340-566 ..... c 35 N83-34272 *
US-PATENT-CLASS-340-57 ..... c 14 N71-15620 *
US-PATENT-CLASS-340-580 ..... c 35 N88-29149 *
US-PATENT-CLASS-340-602 ..... c 33 N80-23559 *
US-PATENT-CLASS-340-604 ..... c 33 N80-23559 *
US-PATENT-CLASS-340-605 ..... c 25 N86-27431 *
US-PATENT-CLASS-340-650 ..... c 33 N79-18193 *
US-PATENT-CLASS-340-664 ..... c 33 N79-18193 *
US-PATENT-CLASS-340-683 ..... c 37 N91-14607 *
US-PATENT-CLASS-340-692 ..... c 76 N90-24168 *
US-PATENT-CLASS-340-705 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-8LF ..... c 71 N79-23753 *
US-PATENT-CLASS-340-8R ..... c 35 N74-16135 *
US-PATENT-CLASS-340-825.21 .. c 60 N84-28492 *
US-PATENT-CLASS-340-825.5 .... c 60 N84-28492 *
US-PATENT-CLASS-340-825.5 .... c 17 N87-16863 *
US-PATENT-CLASS-340-825.5 .... c 62 N91-14772 *
US-PATENT-CLASS-340-825.69 .. c 35 N90-23707 *
US-PATENT-CLASS-340-825.89 .. c 33 N82-29538 *
US-PATENT-CLASS-340-870.13 .. c 35 N84-22934 *
US-PATENT-CLASS-340-870.18 .. c 17 N87-16863 *
US-PATENT-CLASS-340-870.24 .. c 33 N81-14221 *
US-PATENT-CLASS-340-905 ..... c 35 N84-33769 *
US-PATENT-CLASS-340-945 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-967 ..... c 08 N87-20999 *
US-PATENT-CLASS-340-968 ..... c 06 N86-27280 *
US-PATENT-CLASS-340-971 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-971 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-975 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-975 ..... c 06 N87-22678 *
US-PATENT-CLASS-340-978 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-97 ..... c 21 N73-13643 *
US-PATENT-CLASS-340-980 ..... c 06 N84-27733 *
US-PATENT-CLASS-340-988 ..... c 35 N84-33769 *
US-PATENT-CLASS-342-105 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-114 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-125 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-127 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-165 ..... c 32 N89-28672 *
US-PATENT-CLASS-342-191 ..... c 43 N91-32546 *
US-PATENT-CLASS-342-195 ..... c 33 N89-14384 *
US-PATENT-CLASS-342-195 ..... c 32 N90-20280 *
US-PATENT-CLASS-342-1 ..... c 32 N89-28672 *

US-PATENT-CLASS-342-25 ..... c 43 N91-14642 *
US-PATENT-CLASS-342-25 ..... c 43 N91-32546 *
US-PATENT-CLASS-342-26 ..... c 43 N91-21621 *
US-PATENT-CLASS-342-26 ..... c 43 N91-32546 *
US-PATENT-CLASS-342-352 ..... c 04 N91-14321 *
US-PATENT-CLASS-342-357 ..... c 04 N91-14321 *
US-PATENT-CLASS-342-357 ..... c 43 N91-21621 *
US-PATENT-CLASS-342-374 ..... c 32 N89-11961 *
US-PATENT-CLASS-342-375 ..... c 32 N89-11961 *
US-PATENT-CLASS-342-418 ..... c 04 N91-14321 *
US-PATENT-CLASS-342-43 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-51 ..... c 32 N88-26568 *
US-PATENT-CLASS-342-52 ..... c 43 N91-21621 *
US-PATENT-CLASS-342-54 ..... c 09 N91-14356 *
US-PATENT-CLASS-342-5 ..... c 32 N89-28672 *
US-PATENT-CLASS-343-DIG.2 .... c 07 N73-24176 *
US-PATENT-CLASS-343-DIG.2 .... c 33 N74-20860 *
US-PATENT-CLASS-343-DIG.2 .... c 37 N86-25791 *
US-PATENT-CLASS-343-DIG.2 .... c 32 N89-25363 *
US-PATENT-CLASS-343-DIG.3 .... c 09 N72-12136 *
US-PATENT-CLASS-343-DIG2 ..... c 07 N83-20944 *
US-PATENT-CLASS-343-100AP .. c 33 N83-36355 *
US-PATENT-CLASS-343-100CL .. c 32 N77-32342 *
US-PATENT-CLASS-343-100CL .. c 32 N79-14268 *
US-PATENT-CLASS-343-100CL .. c 32 N81-29308 *
US-PATENT-CLASS-343-100CL .. c 32 N83-18975 *
US-PATENT-CLASS-343-100CL .. c 32 N83-19968 *
US-PATENT-CLASS-343-100ME . c 14 N72-28437 *
US-PATENT-CLASS-343-100ME . c 14 N73-26432 *
US-PATENT-CLASS-343-100ME . c 46 N80-14603 *
US-PATENT-CLASS-343-100ME . c 35 N80-18359 *
US-PATENT-CLASS-343-100ME . c 46 N82-12685 *
US-PATENT-CLASS-343-100ME . c 06 N83-10040 *
US-PATENT-CLASS-343-100PE .. c 32 N75-24982 *
US-PATENT-CLASS-343-100PE .. c 33 N81-26358 *
US-PATENT-CLASS-343-100PE .. c 46 N82-12685 *
US-PATENT-CLASS-343-100PE .. c 35 N82-15381 *
US-PATENT-CLASS-343-100R .... c 10 N73-16206 *
US-PATENT-CLASS-343-100R .... c 33 N80-18287 *
US-PATENT-CLASS-343-100SA .. c 10 N73-16206 *
US-PATENT-CLASS-343-100SA .. c 33 N74-20860 *
US-PATENT-CLASS-343-100SA .. c 17 N76-21250 *
US-PATENT-CLASS-343-100SA .. c 32 N80-28578 *
US-PATENT-CLASS-343-100ST .. c 07 N72-21118 *
US-PATENT-CLASS-343-100ST .. c 33 N74-20860 *
US-PATENT-CLASS-343-100ST .. c 32 N75-15854 *
US-PATENT-CLASS-343-100ST .. c 17 N76-21250 *
US-PATENT-CLASS-343-100ST .. c 32 N77-20289 *
US-PATENT-CLASS-343-100ST .. c 33 N80-18287 *
US-PATENT-CLASS-343-100TD .. c 32 N79-24210 *
US-PATENT-CLASS-343-100TD .. c 32 N81-14185 *
US-PATENT-CLASS-343-100 ..... c 10 N71-18722 *
US-PATENT-CLASS-343-100 ..... c 07 N71-19854 *
US-PATENT-CLASS-343-100 ..... c 30 N71-23723 *
US-PATENT-CLASS-343-100 ..... c 07 N71-24621 *
US-PATENT-CLASS-343-100 ..... c 09 N71-24804 *
US-PATENT-CLASS-343-100 ..... c 31 N71-24813 *
US-PATENT-CLASS-343-100 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-100 ..... c 07 N71-28900 *
US-PATENT-CLASS-343-105R .... c 32 N75-26194 *
US-PATENT-CLASS-343-105R .... c 04 N84-27713 *
US-PATENT-CLASS-343-108R .... c 04 N74-13420 *
US-PATENT-CLASS-343-10 ..... c 32 N77-32342 *
US-PATENT-CLASS-343-11R ..... c 09 N73-12211 *
US-PATENT-CLASS-343-11VB .... c 09 N73-12211 *
US-PATENT-CLASS-343-112CA .. c 21 N73-13643 *
US-PATENT-CLASS-343-112CA .. c 21 N73-30641 *
US-PATENT-CLASS-343-112CA .. c 03 N75-30132 *
US-PATENT-CLASS-343-112D .... c 14 N72-28437 *
US-PATENT-CLASS-343-112D .... c 32 N75-26194 *
US-PATENT-CLASS-343-112D .... c 46 N80-14603 *
US-PATENT-CLASS-343-112R .... c 09 N73-32110 *
US-PATENT-CLASS-343-112R .... c 17 N78-17140 *
US-PATENT-CLASS-343-112R .... c 04 N80-32359 *
US-PATENT-CLASS-343-112R .... c 32 N81-27341 *
US-PATENT-CLASS-343-112TC .. c 17 N76-21250 *
US-PATENT-CLASS-343-112 ..... c 21 N71-13958 *
US-PATENT-CLASS-343-112 ..... c 02 N71-19287 *
US-PATENT-CLASS-343-112 ..... c 21 N71-24948 *
US-PATENT-CLASS-343-113R .... c 09 N73-32110 *
US-PATENT-CLASS-343-113R .... c 44 N78-28594 *
US-PATENT-CLASS-343-113 ..... c 10 N71-21473 *
US-PATENT-CLASS-343-113 ..... c 07 N71-24625 *
US-PATENT-CLASS-343-117R .... c 32 N79-13214 *
US-PATENT-CLASS-343-117 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-118 ..... c 32 N79-13214 *
US-PATENT-CLASS-343-119 ..... c 44 N78-28594 *
US-PATENT-CLASS-343-12R ..... c 08 N72-25209 *
US-PATENT-CLASS-343-12 ..... c 21 N70-41930 *
US-PATENT-CLASS-343-12 ..... c 10 N72-20224 *
US-PATENT-CLASS-343-13-R .... c 74 N85-34629 *
US-PATENT-CLASS-343-13 ..... c 09 N71-18598 *
US-PATENT-CLASS-343-14 ..... c 07 N70-41680 *
US-PATENT-CLASS-343-14 ..... c 08 N72-25209 *
US-PATENT-CLASS-343-14 ..... c 14 N73-25461 *
US-PATENT-CLASS-343-14 ..... c 32 N79-14267 *

US-PATENT-CLASS-343-14 ..... c 31 N79-28370 *
US-PATENT-CLASS-343-16M ..... c 10 N72-22235 *
US-PATENT-CLASS-343-16M ..... c 44 N78-28594 *
US-PATENT-CLASS-343-16 ..... c 09 N71-20864 *
US-PATENT-CLASS-343-16 ..... c 10 N71-21483 *
US-PATENT-CLASS-343-17.1PF . c 32 N82-23376 *
US-PATENT-CLASS-343-17.2-PC c 32 N85-34327 *
US-PATENT-CLASS-343-17.2PC . c 35 N79-10391 *
US-PATENT-CLASS-343-17.2 ..... c 07 N70-36911 *
US-PATENT-CLASS-343-17.5 ..... c 14 N73-25461 *
US-PATENT-CLASS-343-17.5 ..... c 32 N75-15854 *
US-PATENT-CLASS-343-17.5 ..... c 32 N84-22820 *
US-PATENT-CLASS-343-17.7 ..... c 07 N71-12391 *
US-PATENT-CLASS-343-17.7 ..... c 44 N74-19870 *
US-PATENT-CLASS-343-17.7 ..... c 32 N77-31350 *
US-PATENT-CLASS-343-17.7 ..... c 32 N79-11265 *
US-PATENT-CLASS-343-17.7 ..... c 32 N84-27951 *
US-PATENT-CLASS-343-17.7 ..... c 33 N85-21493 *
US-PATENT-CLASS-343-176 ..... c 07 N71-27056 *
US-PATENT-CLASS-343-176 ..... c 32 N76-14321 *
US-PATENT-CLASS-343-179 ..... c 07 N72-11149 *
US-PATENT-CLASS-343-179 ..... c 07 N73-20174 *
US-PATENT-CLASS-343-179 ..... c 32 N78-15323 *
US-PATENT-CLASS-343-179 ..... c 32 N79-20296 *
US-PATENT-CLASS-343-18A ..... c 32 N80-14281 *
US-PATENT-CLASS-343-18B ..... c 32 N74-12912 *
US-PATENT-CLASS-343-18B ..... c 32 N77-21267 *
US-PATENT-CLASS-343-18B ..... c 43 N80-18498 *
US-PATENT-CLASS-343-18D ..... c 43 N80-18498 *
US-PATENT-CLASS-343-18 ..... c 31 N70-37981 *
US-PATENT-CLASS-343-18 ..... c 07 N70-40063 *
US-PATENT-CLASS-343-18 ..... c 30 N70-40309 *
US-PATENT-CLASS-343-18 ..... c 07 N70-41678 *
US-PATENT-CLASS-343-200 ..... c 07 N73-16121 *
US-PATENT-CLASS-343-204 ..... c 07 N73-26118 *
US-PATENT-CLASS-343-225 ..... c 17 N78-17140 *
US-PATENT-CLASS-343-352 ..... c 43 N85-21723 *
US-PATENT-CLASS-343-352 ..... c 46 N85-21846 *
US-PATENT-CLASS-343-356 ..... c 04 N84-22546 *
US-PATENT-CLASS-343-357 ..... c 04 N84-22546 *
US-PATENT-CLASS-343-357 ..... c 04 N86-27270 *
US-PATENT-CLASS-343-376 ..... c 33 N85-21493 *
US-PATENT-CLASS-343-418 ..... c 04 N86-27270 *
US-PATENT-CLASS-343-460 ..... c 46 N85-21846 *
US-PATENT-CLASS-343-5-CD ..... c 43 N86-19711 *
US-PATENT-CLASS-343-5-CM ..... c 32 N84-34651 *
US-PATENT-CLASS-343-5-CM ..... c 32 N85-34327 *
US-PATENT-CLASS-343-5-CM ..... c 43 N86-19711 *
US-PATENT-CLASS-343-5-DP ..... c 32 N84-34651 *
US-PATENT-CLASS-343-5-FT ..... c 32 N84-34651 *
US-PATENT-CLASS-343-5-VQ ..... c 43 N86-19711 *
US-PATENT-CLASS-343-5-W ..... c 32 N85-34327 *
US-PATENT-CLASS-343-5CM ..... c 07 N72-21118 *
US-PATENT-CLASS-343-5CM ..... c 32 N77-21267 *
US-PATENT-CLASS-343-5CM ..... c 32 N77-32342 *
US-PATENT-CLASS-343-5CM ..... c 35 N79-10391 *
US-PATENT-CLASS-343-5CM ..... c 32 N79-14268 *
US-PATENT-CLASS-343-5CM ..... c 43 N80-18498 *
US-PATENT-CLASS-343-5CM ..... c 32 N82-12297 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-18975 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-19968 *
US-PATENT-CLASS-343-5CM ..... c 32 N83-31918 *
US-PATENT-CLASS-343-5DP ..... c 07 N72-11149 *
US-PATENT-CLASS-343-5DP ..... c 09 N73-12211 *
US-PATENT-CLASS-343-5DP ..... c 32 N77-32342 *
US-PATENT-CLASS-343-5DP ..... c 32 N82-23376 *
US-PATENT-CLASS-343-5GC ..... c 32 N75-24982 *
US-PATENT-CLASS-343-5MM ..... c 32 N77-21267 *
US-PATENT-CLASS-343-5NA ..... c 31 N79-28370 *
US-PATENT-CLASS-343-5W ..... c 35 N79-10391 *
US-PATENT-CLASS-343-5W ..... c 43 N80-18498 *
US-PATENT-CLASS-343-5W ..... c 46 N85-21846 *
US-PATENT-CLASS-343-6.BR ..... c 32 N77-20289 *
US-PATENT-CLASS-343-6.5R ..... c 07 N72-12080 *
US-PATENT-CLASS-343-6.5R ..... c 07 N72-21118 *
US-PATENT-CLASS-343-6.5R ..... c 07 N72-25171 *
US-PATENT-CLASS-343-6.5R ..... c 08 N72-25209 *
US-PATENT-CLASS-343-6.5R ..... c 07 N73-25161 *
US-PATENT-CLASS-343-6.5R ..... c 21 N73-30641 *
US-PATENT-CLASS-343-6.5R ..... c 32 N74-12912 *
US-PATENT-CLASS-343-6.5R ..... c 32 N75-15854 *
US-PATENT-CLASS-343-6.5R ..... c 03 N75-30132 *
US-PATENT-CLASS-343-6.5R ..... c 32 N77-20289 *
US-PATENT-CLASS-343-6.5SS ... c 32 N74-12912 *
US-PATENT-CLASS-343-6.5 ..... c 21 N71-11766 *
US-PATENT-CLASS-343-6.5 ..... c 10 N71-23099 *
US-PATENT-CLASS-343-6.8-R .... c 04 N86-19304 *
US-PATENT-CLASS-343-6.8R ..... c 07 N72-12080 *
US-PATENT-CLASS-343-6.8R ..... c 07 N73-25161 *
US-PATENT-CLASS-343-6.8R ..... c 14 N73-25461 *
US-PATENT-CLASS-343-6R ..... c 32 N79-10264 *
US-PATENT-CLASS-343-6 ..... c 30 N71-16090 *
US-PATENT-CLASS-343-7.4 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-7.4 ..... c 32 N79-13214 *
US-PATENT-CLASS-343-7.5 ..... c 07 N69-39974 * #
US-PATENT-CLASS-343-7.5 ..... c 09 N71-24595 *

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US-PATENT-CLASS-343-7.5 ..... c 32 N82-23376 *
US-PATENT-CLASS-343-700MS . c 32 N78-24391 *
US-PATENT-CLASS-343-700MS . c 32 N80-32604 *
US-PATENT-CLASS-343-700MS . c 32 N82-11336 *
US-PATENT-CLASS-343-703 ..... c 09 N71-13521 *
US-PATENT-CLASS-343-703 ..... c 07 N71-24614 *
US-PATENT-CLASS-343-705 ..... c 07 N70-38200 *
US-PATENT-CLASS-343-705 ..... c 07 N70-40202 *
US-PATENT-CLASS-343-705 ..... c 31 N71-10747 *
US-PATENT-CLASS-343-705 ..... c 03 N76-32140 *
US-PATENT-CLASS-343-706 ..... c 07 N72-21117 *
US-PATENT-CLASS-343-708 ..... c 09 N71-22888 *
US-PATENT-CLASS-343-708 ..... c 07 N71-22984 *
US-PATENT-CLASS-343-708 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-708 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-708 ..... c 32 N74-20864 *
US-PATENT-CLASS-343-708 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-718 ..... c 09 N71-18720 *
US-PATENT-CLASS-343-720 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-725 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-727 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-727 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-729 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-730 ..... c 32 N74-20863 *
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US-PATENT-CLASS-343-755 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-755 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-761 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-761 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-762 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-768 ..... c 10 N71-26142 *
US-PATENT-CLASS-343-769 ..... c 32 N74-20864 *
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US-PATENT-CLASS-343-770 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-771 ..... c 07 N71-28809 *
US-PATENT-CLASS-343-771 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-771 ..... c 09 N72-21244 *
US-PATENT-CLASS-343-771 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-771 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-771 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-772 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-772 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-773 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-776 ..... c 07 N71-12396 *
US-PATENT-CLASS-343-777 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-777 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-777 ..... c 32 N89-11961 *
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US-PATENT-CLASS-343-779 ..... c 07 N71-11285 *
US-PATENT-CLASS-343-779 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-779 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-779 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-779 ..... c 33 N76-27472 *
US-PATENT-CLASS-343-779 ..... c 32 N89-11961 *
US-PATENT-CLASS-343-781CA .. c 32 N78-31321 *
US-PATENT-CLASS-343-781P .... c 46 N82-12685 *
US-PATENT-CLASS-343-781R .... c 32 N81-25278 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35219 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35382 *
US-PATENT-CLASS-343-781 ..... c 09 N70-35425 *
US-PATENT-CLASS-343-781 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-781 ..... c 32 N74-11000 *
US-PATENT-CLASS-343-781 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-781 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-782 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-782 ..... c 32 N78-31321 *
US-PATENT-CLASS-343-784 ..... c 07 N71-28980 *
US-PATENT-CLASS-343-786 ..... c 07 N71-15907 *
US-PATENT-CLASS-343-786 ..... c 07 N71-22750 *
US-PATENT-CLASS-343-786 ..... c 07 N71-26101 *
US-PATENT-CLASS-343-786 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-786 ..... c 07 N72-20141 *
US-PATENT-CLASS-343-786 ..... c 10 N72-22235 *
US-PATENT-CLASS-343-786 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-786 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-786 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-786 ..... c 32 N76-15330 *
US-PATENT-CLASS-343-786 ..... c 32 N76-21365 *
US-PATENT-CLASS-343-786 ..... c 32 N80-23524 *
US-PATENT-CLASS-343-786 ..... c 32 N80-29539 *
US-PATENT-CLASS-343-786 ..... c 32 N81-25278 *
US-PATENT-CLASS-343-789 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-789 ..... c 32 N82-27558 *
US-PATENT-CLASS-343-795 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-797 ..... c 09 N71-24842 *
US-PATENT-CLASS-343-797 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-797 ..... c 09 N72-31235 *
US-PATENT-CLASS-343-797 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-797 ..... c 32 N74-20863 *
US-PATENT-CLASS-343-797 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-797 ..... c 32 N81-14187 *
US-PATENT-CLASS-343-799 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-803 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-823 ..... c 07 N71-28979 *

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US-PATENT-CLASS-343-833 ..... c 31 N70-34135 *
US-PATENT-CLASS-343-837 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-837 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-837 ..... c 33 N75-19516 *
US-PATENT-CLASS-343-837 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-837 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-837 ..... c 32 N78-31321 *
US-PATENT-CLASS-343-839 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-840 ..... c 07 N71-27233 *
US-PATENT-CLASS-343-840 ..... c 09 N72-12136 *
US-PATENT-CLASS-343-840 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-840 ..... c 32 N76-18295 *
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US-PATENT-CLASS-343-844 ..... c 32 N79-11264 *
US-PATENT-CLASS-343-844 ..... c 32 N80-28578 *
US-PATENT-CLASS-343-846 ..... c 33 N76-14372 *
US-PATENT-CLASS-343-846 ..... c 32 N82-11336 *
US-PATENT-CLASS-343-853 ..... c 07 N72-11148 *
US-PATENT-CLASS-343-853 ..... c 07 N72-22127 *
US-PATENT-CLASS-343-853 ..... c 07 N72-25174 *
US-PATENT-CLASS-343-853 ..... c 09 N72-31235 *
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US-PATENT-CLASS-343-854 ..... c 33 N76-27472 *
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US-PATENT-CLASS-343-873 ..... c 07 N71-19493 *
US-PATENT-CLASS-343-873 ..... c 09 N72-25247 *
US-PATENT-CLASS-343-876 ..... c 32 N76-15329 *
US-PATENT-CLASS-343-876 ..... c 32 N85-29118 *
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US-PATENT-CLASS-343-880 ..... c 18 N80-14183 *
US-PATENT-CLASS-343-880 ..... c 32 N89-25363 *
US-PATENT-CLASS-343-881 ..... c 37 N86-25789 *
US-PATENT-CLASS-343-882 ..... c 33 N76-32457 *
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US-PATENT-CLASS-343-883 ..... c 07 N73-26117 *
US-PATENT-CLASS-343-883 ..... c 18 N80-14183 *
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US-PATENT-CLASS-343-889 ..... c 07 N73-26117 *
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US-PATENT-CLASS-343-893 ..... c 07 N73-28013 *
US-PATENT-CLASS-343-895 ..... c 09 N73-19234 *
US-PATENT-CLASS-343-895 ..... c 07 N73-26117 *
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US-PATENT-CLASS-343-9PS ..... c 32 N83-19968 *
US-PATENT-CLASS-343-9PS ..... c 32 N83-31918 *
US-PATENT-CLASS-343-9R ..... c 32 N84-22820 *
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US-PATENT-CLASS-343-912 ..... c 32 N76-18295 *
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US-PATENT-CLASS-343-915 ..... c 09 N71-20658 *
US-PATENT-CLASS-343-915 ..... c 07 N72-32169 *
US-PATENT-CLASS-343-915 ..... c 07 N73-14130 *
US-PATENT-CLASS-343-915 ..... c 07 N73-24176 *
US-PATENT-CLASS-343-915 ..... c 32 N76-18295 *
US-PATENT-CLASS-343-915 ..... c 33 N76-32457 *
US-PATENT-CLASS-343-915 ..... c 32 N89-25363 *
US-PATENT-CLASS-343-9 ..... c 32 N75-15854 *
US-PATENT-CLASS-343-9 ..... c 32 N79-10264 *
US-PATENT-CLASS-346-107A .... c 14 N72-18411 *
US-PATENT-CLASS-346-107 ..... c 23 N71-23976 *
US-PATENT-CLASS-346-108 ..... c 35 N74-15831 *
US-PATENT-CLASS-346-110 ..... c 14 N73-32322 *
US-PATENT-CLASS-346-138 ..... c 21 N73-13644 *
US-PATENT-CLASS-346-138 ..... c 35 N74-15831 *
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US-PATENT-CLASS-346-1 ..... c 09 N72-21246 *
US-PATENT-CLASS-346-23 ..... c 14 N72-18411 *
US-PATENT-CLASS-346-24 ..... c 35 N74-15831 *
US-PATENT-CLASS-346-29 ..... c 09 N72-21246 *
US-PATENT-CLASS-346-33R ..... c 35 N74-32877 *
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US-PATENT-CLASS-346-74MD ... c 21 N73-13644 *
US-PATENT-CLASS-346-74MT .... c 35 N79-16246 *
US-PATENT-CLASS-346R ..... c 73 N77-18891 *
US-PATENT-CLASS-349 ..... c 25 N79-28253 *
US-PATENT-CLASS-35-10.2 ..... c 14 N71-15621 *
US-PATENT-CLASS-35-12C ..... c 14 N73-27377 *
US-PATENT-CLASS-35-12C ..... c 09 N75-15662 *
US-PATENT-CLASS-35-12C ..... c 74 N79-13855 *

US-PATENT-CLASS-35-12E ..... c 09 N74-30597 *
US-PATENT-CLASS-35-12E ..... c 09 N79-31228 *
US-PATENT-CLASS-35-12H ..... c 09 N79-31228 *
US-PATENT-CLASS-35-12N ..... c 09 N76-24280 *
US-PATENT-CLASS-35-12N ..... c 09 N78-18083 *
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US-PATENT-CLASS-35-12 ..... c 31 N70-34966 *
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US-PATENT-CLASS-35-12 ..... c 11 N71-18773 *
US-PATENT-CLASS-35-12 ..... c 11 N71-19494 *
US-PATENT-CLASS-35-12 ..... c 11 N71-21474 *
US-PATENT-CLASS-35-12 ..... c 18 N76-14186 *
US-PATENT-CLASS-35-17 ..... c 05 N71-24606 *
US-PATENT-CLASS-35-19 ..... c 10 N71-27365 *
US-PATENT-CLASS-35-22R ..... c 05 N73-13114 *
US-PATENT-CLASS-35-29 ..... c 11 N71-16028 *
US-PATENT-CLASS-35-29 ..... c 05 N71-28619 *
US-PATENT-CLASS-35-35A ..... c 71 N74-21014 *
US-PATENT-CLASS-35-45 ..... c 14 N70-35394 *
US-PATENT-CLASS-35-49 ..... c 12 N69-39988 * #
US-PATENT-CLASS-35-8 ..... c 05 N72-16015 *
US-PATENT-CLASS-350-100 ..... c 36 N77-25501 *
US-PATENT-CLASS-350-102 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-102 ..... c 36 N77-25501 *
US-PATENT-CLASS-350-102 ..... c 18 N91-27200 *
US-PATENT-CLASS-350-107 ..... c 18 N91-27200 *
US-PATENT-CLASS-350-138 ..... c 23 N72-27728 *
US-PATENT-CLASS-350-145 ..... c 74 N77-20882 *
US-PATENT-CLASS-350-147 ..... c 14 N72-27409 *
US-PATENT-CLASS-350-150 ..... c 26 N72-25680 *
US-PATENT-CLASS-350-150 ..... c 36 N76-18427 *
US-PATENT-CLASS-350-151 ..... c 36 N74-13205 *
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US-PATENT-CLASS-350-157 ..... c 74 N79-14891 *
US-PATENT-CLASS-350-159 ..... c 74 N78-17865 *
US-PATENT-CLASS-350-160R .... c 14 N72-25410 *
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US-PATENT-CLASS-350-161 ..... c 26 N72-27784 *
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US-PATENT-CLASS-350-162.13 .. c 74 N89-14078 *
US-PATENT-CLASS-350-162.13 .. c 74 N91-25840 *
US-PATENT-CLASS-350-162R .... c 74 N80-21140 *
US-PATENT-CLASS-350-162SF .. c 23 N73-30666 *
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US-PATENT-CLASS-350-162SF .. c 36 N77-32478 *
US-PATENT-CLASS-350-162 ..... c 14 N72-17323 *
US-PATENT-CLASS-350-163 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-165 ..... c 27 N78-31233 *
US-PATENT-CLASS-350-166 ..... c 44 N83-34448 *
US-PATENT-CLASS-350-168 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-16 ..... c 14 N72-22444 *
US-PATENT-CLASS-350-170 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-170 ..... c 74 N83-10900 *
US-PATENT-CLASS-350-171 ..... c 23 N72-23695 *
US-PATENT-CLASS-350-171 ..... c 74 N83-17305 *
US-PATENT-CLASS-350-172 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-173 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-173 ..... c 74 N83-36898 *
US-PATENT-CLASS-350-173 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-174 ..... c 74 N77-20882 *
US-PATENT-CLASS-350-174 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-174 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-175E .... c 74 N80-27185 *
US-PATENT-CLASS-350-175FS .. c 14 N72-25414 *
US-PATENT-CLASS-350-175NG . c 27 N78-31233 *
US-PATENT-CLASS-350-189 ..... c 23 N71-24857 *
US-PATENT-CLASS-350-199 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-19 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-1 ..... c 23 N69-24332 * #
US-PATENT-CLASS-350-1 ..... c 07 N71-29065 *
US-PATENT-CLASS-350-1 ..... c 16 N72-12440 *
US-PATENT-CLASS-350-1 ..... c 24 N76-24363 *
US-PATENT-CLASS-350-1 ..... c 74 N78-15879 *
US-PATENT-CLASS-350-202 ..... c 23 N73-20741 *
US-PATENT-CLASS-350-202 ..... c 74 N77-28932 *
US-PATENT-CLASS-350-203 ..... c 14 N72-25409 *
US-PATENT-CLASS-350-204 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-204 ..... c 74 N78-17866 *
US-PATENT-CLASS-350-211 ..... c 44 N76-14602 *
US-PATENT-CLASS-350-213 ..... c 14 N71-15622 *
US-PATENT-CLASS-350-226 ..... c 74 N80-27185 *
US-PATENT-CLASS-350-236 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-23 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-253 ..... c 35 N77-27366 *
US-PATENT-CLASS-350-25 ..... c 74 N80-21138 *
US-PATENT-CLASS-350-269 ..... c 33 N74-20861 *
US-PATENT-CLASS-350-26 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-270 ..... c 70 N74-21300 *
US-PATENT-CLASS-350-275 ..... c 09 N71-19479 *
US-PATENT-CLASS-350-276-R ... c 74 N86-20125 *
US-PATENT-CLASS-350-276R .... c 74 N86-28732 *

US-PATENT-CLASS-350-285 ..... c 14 N71-15605 *
US-PATENT-CLASS-350-285 ..... c 14 N71-17662 *
US-PATENT-CLASS-350-285 ..... c 19 N71-26674 *
US-PATENT-CLASS-350-285 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-285 ..... c 16 N73-33397 *
US-PATENT-CLASS-350-285 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-285 ..... c 74 N80-21138 *
US-PATENT-CLASS-350-286 ..... c 07 N71-29065 *
US-PATENT-CLASS-350-286 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-286 ..... c 74 N83-10900 *
US-PATENT-CLASS-350-287 ..... c 15 N72-11386 *
US-PATENT-CLASS-350-287 ..... c 74 N83-13978 *
US-PATENT-CLASS-350-287 ..... c 35 N91-14590 *
US-PATENT-CLASS-350-288 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-288 ..... c 12 N76-15189 *
US-PATENT-CLASS-350-288 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-288 ..... c 44 N79-11471 *
US-PATENT-CLASS-350-288 ..... c 44 N79-24433 *
US-PATENT-CLASS-350-292 ..... c 35 N75-12273 *
US-PATENT-CLASS-350-292 ..... c 44 N79-14529 *
US-PATENT-CLASS-350-292 ..... c 44 N79-24432 *
US-PATENT-CLASS-350-293 ..... c 16 N73-16536 *
US-PATENT-CLASS-350-293 ..... c 12 N76-15189 *
US-PATENT-CLASS-350-293 ..... c 44 N76-24696 *
US-PATENT-CLASS-350-293 ..... c 44 N78-10554 *
US-PATENT-CLASS-350-293 ..... c 44 N79-14529 *
US-PATENT-CLASS-350-294 ..... c 89 N79-10969 *
US-PATENT-CLASS-350-294 ..... c 44 N79-24432 *
US-PATENT-CLASS-350-294 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-295 ..... c 44 N77-32583 *
US-PATENT-CLASS-350-295 ..... c 44 N80-14473 *
US-PATENT-CLASS-350-296 ..... c 44 N79-24432 *
US-PATENT-CLASS-350-296 ..... c 44 N80-14473 *
US-PATENT-CLASS-350-299 ..... c 74 N74-21304 *
US-PATENT-CLASS-350-299 ..... c 44 N76-24696 *
US-PATENT-CLASS-350-299 ..... c 74 N77-28932 *
US-PATENT-CLASS-350-299 ..... c 44 N78-10554 *
US-PATENT-CLASS-350-299 ..... c 44 N78-31526 *
US-PATENT-CLASS-350-299 ..... c 44 N79-11471 *
US-PATENT-CLASS-350-299 ..... c 44 N79-24433 *
US-PATENT-CLASS-350-299 ..... c 36 N84-14509 *
US-PATENT-CLASS-350-2 ..... c 23 N71-30027 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-15551 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-15565 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-15567 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-26154 *
US-PATENT-CLASS-350-3.5 ..... c 16 N71-29131 *
US-PATENT-CLASS-350-3.5 ..... c 14 N72-17324 *
US-PATENT-CLASS-350-3.5 ..... c 16 N73-30476 *
US-PATENT-CLASS-350-3.5 ..... c 35 N74-15146 *
US-PATENT-CLASS-350-3.5 ..... c 35 N74-17153 *
US-PATENT-CLASS-350-3.5 ..... c 35 N74-26946 *
US-PATENT-CLASS-350-3.5 ..... c 35 N75-25124 *
US-PATENT-CLASS-350-3.5 ..... c 35 N75-27328 *
US-PATENT-CLASS-350-3.5 ..... c 35 N76-18402 *
US-PATENT-CLASS-350-3.5 ..... c 35 N78-17357 *
US-PATENT-CLASS-350-3.5 ..... c 38 N78-32447 *
US-PATENT-CLASS-350-3.64 ..... c 35 N91-13694 *
US-PATENT-CLASS-350-3.68 ..... c 74 N91-25840 *
US-PATENT-CLASS-350-3.73 ..... c 36 N87-23960 *
US-PATENT-CLASS-350-3.81 ..... c 36 N87-23960 *
US-PATENT-CLASS-350-301 ..... c 74 N81-17886 *
US-PATENT-CLASS-350-310 ..... c 11 N69-24321 * #
US-PATENT-CLASS-350-310 ..... c 23 N71-24868 *
US-PATENT-CLASS-350-310 ..... c 23 N71-29123 *
US-PATENT-CLASS-350-310 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-310 ..... c 23 N72-22673 *
US-PATENT-CLASS-350-310 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-311 ..... c 74 N75-25706 *
US-PATENT-CLASS-350-312 ..... c 16 N72-12440 *
US-PATENT-CLASS-350-312 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-315 ..... c 74 N86-29650 * #
US-PATENT-CLASS-350-316 ..... c 27 N83-36220 *
US-PATENT-CLASS-350-318 ..... c 74 N86-29650 * #
US-PATENT-CLASS-350-319 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-319 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-319 ..... c 09 N87-14355 *
US-PATENT-CLASS-350-320 ..... c 74 N77-28933 *
US-PATENT-CLASS-350-320 ..... c 44 N77-32583 *
US-PATENT-CLASS-350-320 ..... c 73 N78-32848 *
US-PATENT-CLASS-350-320 ..... c 44 N79-14529 *
US-PATENT-CLASS-350-320 ..... c 74 N85-29749 *
US-PATENT-CLASS-350-320 ..... c 35 N91-13694 *
US-PATENT-CLASS-350-321 ..... c 74 N85-29750 *
US-PATENT-CLASS-350-331-R ... c 74 N89-14078 *
US-PATENT-CLASS-350-335 ..... c 74 N86-21348 *
US-PATENT-CLASS-350-337 ..... c 74 N89-14078 *
US-PATENT-CLASS-350-342 ..... c 76 N85-33826 *
US-PATENT-CLASS-350-342 ..... c 74 N89-14078 *
US-PATENT-CLASS-350-353 ..... c 74 N83-19597 *
US-PATENT-CLASS-350-353 ..... c 74 N91-26918 *
US-PATENT-CLASS-350-354 ..... c 32 N86-20647 *
US-PATENT-CLASS-350-354 ..... c 74 N89-14077 *
US-PATENT-CLASS-350-354 ..... c 35 N91-13694 *
US-PATENT-CLASS-350-354 ..... c 74 N91-26918 *
US-PATENT-CLASS-350-356 ..... c 74 N90-22383 *

US-PATENT-CLASS-350-358 ..... c 36 N82-29589 *
US-PATENT-CLASS-350-358 ..... c 74 N91-26918 *
US-PATENT-CLASS-350-359 ..... c 36 N80-16321 *
US-PATENT-CLASS-350-35 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-36 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-370 ..... c 35 N81-33448 *
US-PATENT-CLASS-350-443 ..... c 74 N84-23248 *
US-PATENT-CLASS-350-445 ..... c 74 N83-36898 *
US-PATENT-CLASS-350-448 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-453 ..... c 36 N82-32712 *
US-PATENT-CLASS-350-486 ..... c 74 N83-13978 *
US-PATENT-CLASS-350-49 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-500 ..... c 35 N91-14590 *
US-PATENT-CLASS-350-505 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-505 ..... c 74 N86-28732 *
US-PATENT-CLASS-350-529 ..... c 37 N91-21545 *
US-PATENT-CLASS-350-52 ..... c 14 N72-22441 *
US-PATENT-CLASS-350-52 ..... c 14 N72-22444 *
US-PATENT-CLASS-350-537 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-55 ..... c 23 N71-33229 *
US-PATENT-CLASS-350-55 ..... c 14 N73-30393 *
US-PATENT-CLASS-350-55 ..... c 23 N73-30666 *
US-PATENT-CLASS-350-55 ..... c 89 N79-10969 *
US-PATENT-CLASS-350-55 ..... c 74 N80-33210 *
US-PATENT-CLASS-350-572 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-573 ..... c 36 N88-14350 *
US-PATENT-CLASS-350-576 ..... c 35 N91-14591 *
US-PATENT-CLASS-350-580 ..... c 74 N86-20125 *
US-PATENT-CLASS-350-58 ..... c 14 N71-15604 *
US-PATENT-CLASS-350-6.5 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-6.5 ..... c 74 N87-21679 *
US-PATENT-CLASS-350-6.6 ..... c 32 N80-24510 *
US-PATENT-CLASS-350-619 ..... c 74 N85-23396 *
US-PATENT-CLASS-350-6 ..... c 14 N69-27461 * #
US-PATENT-CLASS-350-6 ..... c 36 N74-15145 *
US-PATENT-CLASS-350-79 ..... c 14 N72-32452 *
US-PATENT-CLASS-350-7 ..... c 74 N74-15095 *
US-PATENT-CLASS-350-86 ..... c 14 N72-22445 *
US-PATENT-CLASS-350-96.10 .... c 74 N84-11921 *
US-PATENT-CLASS-350-96.15 .... c 74 N84-11921 *
US-PATENT-CLASS-350-96.15 .... c 74 N85-29749 *
US-PATENT-CLASS-350-96.16 .... c 74 N83-29032 *
US-PATENT-CLASS-350-96.21 .... c 74 N89-25689 *
US-PATENT-CLASS-350-96.25 .... c 33 N81-29342 *
US-PATENT-CLASS-350-96.25 .... c 74 N89-25689 *
US-PATENT-CLASS-350-96.29 .... c 74 N91-21871 *
US-PATENT-CLASS-350-96R ..... c 60 N77-14751 *
US-PATENT-CLASS-350-96R ..... c 60 N77-32731 *
US-PATENT-CLASS-350-96R ..... c 60 N78-10709 *
US-PATENT-CLASS-350-96WG ... c 36 N75-31427 *
US-PATENT-CLASS-350-96WG ... c 36 N76-18428 *
US-PATENT-CLASS-350-96WG ... c 36 N76-24553 *
US-PATENT-CLASS-350-96 ..... c 07 N71-26291 *
US-PATENT-CLASS-350-97 ..... c 18 N91-27200 *
US-PATENT-CLASS-351-166 ..... c 74 N78-32854 *
US-PATENT-CLASS-351-203 ..... c 52 N89-16256 *
US-PATENT-CLASS-351-206 ..... c 52 N87-24874 *
US-PATENT-CLASS-351-208 ..... c 52 N87-24874 *
US-PATENT-CLASS-351-237 ..... c 52 N89-16256 *
US-PATENT-CLASS-351-23 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-23 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-30 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-30 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-36 ..... c 05 N73-26072 *
US-PATENT-CLASS-351-36 ..... c 52 N76-30793 *
US-PATENT-CLASS-351-38 ..... c 54 N75-27759 *
US-PATENT-CLASS-352-169 ..... c 14 N73-14427 *
US-PATENT-CLASS-352-171 ..... c 35 N82-26628 *
US-PATENT-CLASS-352-84 ..... c 16 N71-33410 *
US-PATENT-CLASS-352-84 ..... c 14 N72-18411 *
US-PATENT-CLASS-353-54 ..... c 34 N74-23066 *
US-PATENT-CLASS-353-61 ..... c 34 N74-23066 *
US-PATENT-CLASS-354-118 ..... c 74 N81-17886 *
US-PATENT-CLASS-354-217 ..... c 35 N82-26628 *
US-PATENT-CLASS-354-234 ..... c 33 N74-20861 *
US-PATENT-CLASS-354-234 ..... c 70 N74-21300 *
US-PATENT-CLASS-354-289 ..... c 35 N82-26628 *
US-PATENT-CLASS-354-479 ..... c 74 N86-28732 *
US-PATENT-CLASS-354-62 ..... c 52 N87-24874 *
US-PATENT-CLASS-354-77 ..... c 74 N79-20856 *
US-PATENT-CLASS-355-18 ..... c 14 N73-33361 *
US-PATENT-CLASS-356-103 ..... c 14 N71-28994 *
US-PATENT-CLASS-356-103 ..... c 36 N75-15028 *
US-PATENT-CLASS-356-103 ..... c 74 N78-13874 *
US-PATENT-CLASS-356-104 ..... c 16 N71-24074 *
US-PATENT-CLASS-356-104 ..... c 74 N78-13874 *
US-PATENT-CLASS-356-106LR .. c 36 N75-19653 *
US-PATENT-CLASS-356-106R .... c 72 N74-19310 *
US-PATENT-CLASS-356-106R .... c 36 N76-14447 *
US-PATENT-CLASS-356-106R .... c 35 N77-10493 *
US-PATENT-CLASS-356-106R .... c 47 N77-10753 *
US-PATENT-CLASS-356-106S ..... c 23 N73-13661 *
US-PATENT-CLASS-356-106S ..... c 35 N76-31490 *
US-PATENT-CLASS-356-106S ..... c 35 N78-18391 *
US-PATENT-CLASS-356-1065 ..... c 35 N74-23040 *
US-PATENT-CLASS-356-106 ..... c 14 N71-17627 *
US-PATENT-CLASS-356-106 ..... c 14 N71-17655 *
US-PATENT-CLASS-356-106 ..... c 14 N71-27215 *
US-PATENT-CLASS-356-106 ..... c 14 N73-12446 *
US-PATENT-CLASS-356-106 ..... c 35 N74-15146 *
US-PATENT-CLASS-356-107 ..... c 16 N71-24170 *
US-PATENT-CLASS-356-108 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-108 ..... c 16 N73-30476 *
US-PATENT-CLASS-356-109 ..... c 16 N73-30476 *
US-PATENT-CLASS-356-110 ..... c 14 N73-25463 *
US-PATENT-CLASS-356-110 ..... c 35 N78-18391 *
US-PATENT-CLASS-356-112 ..... c 72 N74-19310 *
US-PATENT-CLASS-356-113 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-113 ..... c 35 N74-23040 *
US-PATENT-CLASS-356-114 ..... c 14 N73-12446 *
US-PATENT-CLASS-356-114 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-117 ..... c 23 N71-16101 *
US-PATENT-CLASS-356-120 ..... c 74 N78-27904 *
US-PATENT-CLASS-356-123 ..... c 74 N76-19935 *
US-PATENT-CLASS-356-124 ..... c 74 N76-19935 *
US-PATENT-CLASS-356-124 ..... c 74 N79-11865 *
US-PATENT-CLASS-356-128 ..... c 76 N87-25862 *
US-PATENT-CLASS-356-129 ..... c 74 N79-20856 *
US-PATENT-CLASS-356-129 ..... c 76 N87-25862 *
US-PATENT-CLASS-356-138 ..... c 14 N72-20379 *
US-PATENT-CLASS-356-138 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-141 ..... c 14 N72-27409 *
US-PATENT-CLASS-356-141 ..... c 14 N73-28490 *
US-PATENT-CLASS-356-141 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-141 ..... c 89 N74-30886 *
US-PATENT-CLASS-356-141 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-141 ..... c 09 N91-14356 *
US-PATENT-CLASS-356-141 ..... c 35 N91-15512 *
US-PATENT-CLASS-356-147 ..... c 89 N74-30886 *
US-PATENT-CLASS-356-148 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-150 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-150 ..... c 74 N80-21138 *
US-PATENT-CLASS-356-152 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-152 ..... c 16 N72-13437 *
US-PATENT-CLASS-356-152 ..... c 14 N72-20379 *
US-PATENT-CLASS-356-152 ..... c 14 N72-27409 *
US-PATENT-CLASS-356-152 ..... c 14 N73-25462 *
US-PATENT-CLASS-356-152 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-152 ..... c 36 N74-21091 *
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US-PATENT-CLASS-356-152 ..... c 37 N81-27519 *
US-PATENT-CLASS-356-152 ..... c 09 N91-14356 *
US-PATENT-CLASS-356-152 ..... c 35 N91-15512 *
US-PATENT-CLASS-356-153 ..... c 15 N71-28740 *
US-PATENT-CLASS-356-153 ..... c 23 N71-29125 *
US-PATENT-CLASS-356-153 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-153 ..... c 18 N76-14186 *
US-PATENT-CLASS-356-154 ..... c 15 N71-26673 *
US-PATENT-CLASS-356-159 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-160 ..... c 36 N78-14380 *
US-PATENT-CLASS-356-161 ..... c 26 N73-26751 *
US-PATENT-CLASS-356-162 ..... c 66 N76-19888 *
US-PATENT-CLASS-356-165 ..... c 38 N78-17396 *
US-PATENT-CLASS-356-166 ..... c 14 N71-23175 *
US-PATENT-CLASS-356-167 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-167 ..... c 66 N76-19888 *
US-PATENT-CLASS-356-167 ..... c 74 N78-27904 *
US-PATENT-CLASS-356-169 ..... c 60 N78-10709 *
US-PATENT-CLASS-356-171 ..... c 74 N77-22950 *
US-PATENT-CLASS-356-172 ..... c 16 N73-33397 *
US-PATENT-CLASS-356-172 ..... c 36 N74-21091 *
US-PATENT-CLASS-356-172 ..... c 74 N77-22951 *
US-PATENT-CLASS-356-17 ..... c 14 N72-21409 *
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US-PATENT-CLASS-356-186 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-188 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-189 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-189 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-18 ..... c 14 N72-21409 *
US-PATENT-CLASS-356-197 ..... c 37 N74-18123 *
US-PATENT-CLASS-356-199 ..... c 36 N78-14380 *
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US-PATENT-CLASS-356-1 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-1 ..... c 09 N91-14356 *
US-PATENT-CLASS-356-201 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-201 ..... c 35 N77-14411 *
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US-PATENT-CLASS-356-203 ..... c 14 N71-26788 *
US-PATENT-CLASS-356-204 ..... c 35 N77-14411 *
US-PATENT-CLASS-356-204 ..... c 74 N78-17867 *
US-PATENT-CLASS-356-207 ..... c 45 N76-17656 *
US-PATENT-CLASS-356-208 ..... c 74 N78-33913 *
US-PATENT-CLASS-356-209 ..... c 23 N71-16341 *
US-PATENT-CLASS-356-209 ..... c 14 N71-28993 *
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US-PATENT-CLASS-356-209 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-210 ..... c 74 N79-11865 *
US-PATENT-CLASS-356-212 ..... c 35 N77-31465 *
US-PATENT-CLASS-356-213 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-216 ..... c 74 N74-15095 *
US-PATENT-CLASS-356-216 ..... c 35 N80-18359 *
US-PATENT-CLASS-356-216 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-216 ..... c 35 N84-22931 *
US-PATENT-CLASS-356-222 ..... c 03 N72-20033 *
US-PATENT-CLASS-356-222 ..... c 47 N83-32232 *
US-PATENT-CLASS-356-234 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-234 ..... c 35 N84-22931 *
US-PATENT-CLASS-356-236 ..... c 74 N77-21941 *
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US-PATENT-CLASS-356-237 ..... c 35 N79-28527 *
US-PATENT-CLASS-356-239 ..... c 74 N77-10899 *
US-PATENT-CLASS-356-241 ..... c 14 N72-32452 *
US-PATENT-CLASS-356-243 ..... c 36 N80-16321 *
US-PATENT-CLASS-356-244 ..... c 14 N72-17323 *
US-PATENT-CLASS-356-244 ..... c 35 N76-31490 *
US-PATENT-CLASS-356-244 ..... c 35 N80-28687 *
US-PATENT-CLASS-356-244 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-246 ..... c 35 N74-27860 *
US-PATENT-CLASS-356-246 ..... c 74 N78-17867 *
US-PATENT-CLASS-356-246 ..... c 74 N87-14971 *
US-PATENT-CLASS-356-248 ..... c 14 N72-22444 *
US-PATENT-CLASS-356-256 ..... c 36 N87-28006 *
US-PATENT-CLASS-356-28.5 ..... c 32 N80-24510 *
US-PATENT-CLASS-356-28.5 ..... c 36 N81-24422 *
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US-PATENT-CLASS-356-28.5 ..... c 33 N89-14384 *
US-PATENT-CLASS-356-28.5 ..... c 33 N89-14385 *
US-PATENT-CLASS-356-28.5 ..... c 36 N90-25340 *
US-PATENT-CLASS-356-28 ..... c 21 N71-19212 *
US-PATENT-CLASS-356-28 ..... c 16 N71-24828 *
US-PATENT-CLASS-356-28 ..... c 72 N74-19310 *
US-PATENT-CLASS-356-28 ..... c 36 N75-15028 *
US-PATENT-CLASS-356-28 ..... c 35 N75-16783 *
US-PATENT-CLASS-356-28 ..... c 36 N76-14447 *
US-PATENT-CLASS-356-28 ..... c 36 N77-25501 *
US-PATENT-CLASS-356-28 ..... c 74 N78-17866 *
US-PATENT-CLASS-356-28 ..... c 35 N79-18296 *
US-PATENT-CLASS-356-28 ..... c 36 N80-16321 *
US-PATENT-CLASS-356-28 ..... c 36 N87-17026 *
US-PATENT-CLASS-356-28 ..... c 36 N90-25340 *
US-PATENT-CLASS-356-300 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-301 ..... c 35 N87-14669 *
US-PATENT-CLASS-356-311 ..... c 35 N86-25753 *
US-PATENT-CLASS-356-318 ..... c 35 N86-25753 *
US-PATENT-CLASS-356-323 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-328 ..... c 35 N80-26635 *
US-PATENT-CLASS-356-32 ..... c 14 N72-11364 *
US-PATENT-CLASS-356-32 ..... c 32 N73-20740 *
US-PATENT-CLASS-356-32 ..... c 39 N81-25400 *
US-PATENT-CLASS-356-330 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-331 ..... c 74 N85-23396 *
US-PATENT-CLASS-356-334 ..... c 74 N80-21140 *
US-PATENT-CLASS-356-345 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-345 ..... c 74 N81-29963 *
US-PATENT-CLASS-356-345 ..... c 36 N84-14509 *
US-PATENT-CLASS-356-345 ..... c 74 N86-21348 *
US-PATENT-CLASS-356-345 ..... c 74 N91-21871 *
US-PATENT-CLASS-356-346 ..... c 35 N80-20563 *
US-PATENT-CLASS-356-346 ..... c 74 N81-29963 *
US-PATENT-CLASS-356-347 ..... c 35 N84-22929 *
US-PATENT-CLASS-356-347 ..... c 35 N89-26202 *
US-PATENT-CLASS-356-349 ..... c 36 N82-16396 *
US-PATENT-CLASS-356-350 ..... c 35 N81-33448 *
US-PATENT-CLASS-356-350 ..... c 74 N87-23259 *
US-PATENT-CLASS-356-351 ..... c 35 N81-33448 *
US-PATENT-CLASS-356-351 ..... c 35 N85-30282 *
US-PATENT-CLASS-356-352 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-353 ..... c 74 N83-32577 *
US-PATENT-CLASS-356-356 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-357 ..... c 74 N83-21949 *
US-PATENT-CLASS-356-358 ..... c 74 N81-17888 *
US-PATENT-CLASS-356-358 ..... c 36 N81-24422 *
US-PATENT-CLASS-356-358 ..... c 35 N85-30282 *
US-PATENT-CLASS-356-361 ..... c 35 N89-26202 *
US-PATENT-CLASS-356-363 ..... c 74 N83-32577 *
US-PATENT-CLASS-356-369 ..... c 35 N80-28687 *
US-PATENT-CLASS-356-36 ..... c 23 N71-16365 *
US-PATENT-CLASS-356-375 ..... c 74 N91-32922 *
US-PATENT-CLASS-356-376 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-37 ..... c 45 N76-21742 *
US-PATENT-CLASS-356-386 ..... c 36 N82-16396 *
US-PATENT-CLASS-356-389 ..... c 33 N87-14594 *
US-PATENT-CLASS-356-394 ..... c 33 N83-18996 *
US-PATENT-CLASS-356-399 ..... c 74 N91-32922 *
US-PATENT-CLASS-356-4.5 ..... c 74 N86-21348 *
US-PATENT-CLASS-356-4.5 ..... c 74 N86-32266 *
US-PATENT-CLASS-356-402 ..... c 74 N86-29650 * #
US-PATENT-CLASS-356-404 ..... c 35 N79-28527 *
US-PATENT-CLASS-356-406 ..... c 52 N81-27783 *

US-PATENT-CLASS-356-407 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-407 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-409 ..... c 36 N87-28006 *
US-PATENT-CLASS-356-416 ..... c 43 N79-17288 *
US-PATENT-CLASS-356-416 ..... c 52 N81-27783 *
US-PATENT-CLASS-356-419 ..... c 74 N86-29650 * #
US-PATENT-CLASS-356-432 ..... c 74 N81-17887 *
US-PATENT-CLASS-356-432 ..... c 25 N81-25159 *
US-PATENT-CLASS-356-434 ..... c 35 N84-34705 *
US-PATENT-CLASS-356-437 ..... c 25 N81-14015 *
US-PATENT-CLASS-356-43 ..... c 74 N74-15095 *
US-PATENT-CLASS-356-43 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-43 ..... c 36 N85-21639 *
US-PATENT-CLASS-356-43 ..... c 36 N90-17132 *
US-PATENT-CLASS-356-446 ..... c 74 N86-26190 *
US-PATENT-CLASS-356-45 ..... c 36 N85-21639 *
US-PATENT-CLASS-356-4 ..... c 14 N72-17326 *
US-PATENT-CLASS-356-4 ..... c 07 N73-26119 *
US-PATENT-CLASS-356-4 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-4 ..... c 35 N75-15014 *
US-PATENT-CLASS-356-4 ..... c 36 N83-34304 *
US-PATENT-CLASS-356-4 ..... c 36 N88-24958 *
US-PATENT-CLASS-356-51 ..... c 06 N72-31141 *
US-PATENT-CLASS-356-51 ..... c 35 N75-30502 *
US-PATENT-CLASS-356-51 ..... c 35 N83-21311 *
US-PATENT-CLASS-356-51 ..... c 35 N84-34705 *
US-PATENT-CLASS-356-51 ..... c 36 N87-28006 *
US-PATENT-CLASS-356-5 ..... c 07 N73-26119 *
US-PATENT-CLASS-356-5 ..... c 36 N74-15145 *
US-PATENT-CLASS-356-5 ..... c 36 N75-15028 *
US-PATENT-CLASS-356-5 ..... c 32 N82-23376 *
US-PATENT-CLASS-356-5 ..... c 74 N85-34629 *
US-PATENT-CLASS-356-5 ..... c 74 N86-32266 *
US-PATENT-CLASS-356-5 ..... c 32 N87-14559 *
US-PATENT-CLASS-356-5 ..... c 35 N91-15512 *
US-PATENT-CLASS-356-5 ..... c 74 N91-27957 *
US-PATENT-CLASS-356-71 ..... c 66 N76-19888 *
US-PATENT-CLASS-356-72 ..... c 14 N71-23268 *
US-PATENT-CLASS-356-72 ..... c 33 N73-27796 *
US-PATENT-CLASS-356-72 ..... c 38 N78-32447 *
US-PATENT-CLASS-356-72 ..... c 74 N80-33210 *
US-PATENT-CLASS-356-72 ..... c 35 N86-32697 *
US-PATENT-CLASS-356-73.1 ..... c 76 N90-24150 *
US-PATENT-CLASS-356-73 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-73 ..... c 38 N78-32447 *
US-PATENT-CLASS-356-73 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-73 ..... c 09 N86-32447 *
US-PATENT-CLASS-356-73 ..... c 35 N86-32697 *
US-PATENT-CLASS-356-73 ..... c 76 N90-24150 *
US-PATENT-CLASS-356-74 ..... c 30 N71-15990 *
US-PATENT-CLASS-356-74 ..... c 35 N84-33766 *
US-PATENT-CLASS-356-76 ..... c 23 N71-26206 *
US-PATENT-CLASS-356-76 ..... c 14 N71-29041 *
US-PATENT-CLASS-356-83 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-85 ..... c 37 N74-18123 *
US-PATENT-CLASS-356-85 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-87 ..... c 75 N74-30156 *
US-PATENT-CLASS-356-96 ..... c 35 N75-19613 *
US-PATENT-CLASS-356-97 ..... c 35 N77-14411 *
US-PATENT-CLASS-357-12 ..... c 33 N85-21492 *
US-PATENT-CLASS-357-13 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-15 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-15 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-15 ..... c 44 N81-29525 *
US-PATENT-CLASS-357-15 ..... c 76 N86-20150 *
US-PATENT-CLASS-357-15 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-15 ..... c 33 N91-21434 *
US-PATENT-CLASS-357-16 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-16 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-16 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-17 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-17 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-22 ..... c 33 N79-11314 *
US-PATENT-CLASS-357-22 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-22 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-23.12 .... c 76 N87-13313 *
US-PATENT-CLASS-357-23.1 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-23.6 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-231 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-23 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-23 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-23 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-24 ..... c 33 N75-31331 *
US-PATENT-CLASS-357-24 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-27 ..... c 35 N91-14588 *
US-PATENT-CLASS-357-29 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-29 ..... c 35 N84-33765 *
US-PATENT-CLASS-357-29 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-29 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-29 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-30 ..... c 44 N76-28635 *
US-PATENT-CLASS-357-30 ..... c 44 N78-13526 *
US-PATENT-CLASS-357-30 ..... c 44 N78-24609 *
US-PATENT-CLASS-357-30 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-30 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-30 ..... c 44 N79-14528 *
US-PATENT-CLASS-357-30 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-30 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-30 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-30 ..... c 44 N81-29525 *
US-PATENT-CLASS-357-30 ..... c 44 N82-26777 *
US-PATENT-CLASS-357-30 ..... c 44 N82-29709 *
US-PATENT-CLASS-357-30 ..... c 44 N82-31764 *
US-PATENT-CLASS-357-30 ..... c 44 N83-13579 *
US-PATENT-CLASS-357-30 ..... c 44 N83-32177 *
US-PATENT-CLASS-357-30 ..... c 35 N84-33765 *
US-PATENT-CLASS-357-30 ..... c 33 N85-21492 *
US-PATENT-CLASS-357-30 ..... c 44 N85-21768 *
US-PATENT-CLASS-357-30 ..... c 44 N85-30475 *
US-PATENT-CLASS-357-30 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-30 ..... c 76 N86-20150 *
US-PATENT-CLASS-357-30 ..... c 44 N86-32875 *
US-PATENT-CLASS-357-30 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-30 ..... c 33 N87-23879 *
US-PATENT-CLASS-357-30 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-30 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-30 ..... c 76 N88-14836 *
US-PATENT-CLASS-357-30 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-30 ..... c 35 N90-21358 *
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US-PATENT-CLASS-357-30 ..... c 35 N91-14588 *
US-PATENT-CLASS-357-30 ..... c 33 N91-21434 *
US-PATENT-CLASS-357-30 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-30 ..... c 44 N91-27614 *
US-PATENT-CLASS-357-32 ..... c 35 N84-33765 *
US-PATENT-CLASS-357-32 ..... c 33 N91-14551 *
US-PATENT-CLASS-357-34 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-35 ..... c 33 N87-23879 *
US-PATENT-CLASS-357-40 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-41 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-42 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-45 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-45 ..... c 44 N79-26475 *
US-PATENT-CLASS-357-46 ..... c 36 N85-30305 *
US-PATENT-CLASS-357-46 ..... c 74 N91-25841 *
US-PATENT-CLASS-357-4 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-4 ..... c 76 N85-30922 *
US-PATENT-CLASS-357-4 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-4 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-50 ..... c 76 N85-30922 *
US-PATENT-CLASS-357-52 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-52 ..... c 44 N80-29835 *
US-PATENT-CLASS-357-52 ..... c 76 N87-13313 *
US-PATENT-CLASS-357-54 ..... c 76 N75-25730 *
US-PATENT-CLASS-357-55 ..... c 33 N79-12321 *
US-PATENT-CLASS-357-55 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-55 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-56 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-58 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-58 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-58 ..... c 33 N91-14551 *
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US-PATENT-CLASS-357-59 ..... c 44 N78-24609 *
US-PATENT-CLASS-357-59 ..... c 44 N81-19558 *
US-PATENT-CLASS-357-59 ..... c 33 N86-19516 *
US-PATENT-CLASS-357-5 ..... c 33 N75-31332 *
US-PATENT-CLASS-357-5 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-60 ..... c 33 N81-26360 *
US-PATENT-CLASS-357-61 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-61 ..... c 35 N90-17118 *
US-PATENT-CLASS-357-63 ..... c 33 N76-31409 *
US-PATENT-CLASS-357-63 ..... c 44 N81-19558 *
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US-PATENT-CLASS-357-65 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-65 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-65 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-65 ..... c 33 N88-14271 *
US-PATENT-CLASS-357-67S ..... c 33 N91-21434 *
US-PATENT-CLASS-357-67 ..... c 44 N78-25527 *
US-PATENT-CLASS-357-67 ..... c 44 N79-11467 *
US-PATENT-CLASS-357-67 ..... c 44 N79-31752 *
US-PATENT-CLASS-357-68 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-71S ..... c 33 N91-21434 *
US-PATENT-CLASS-357-72 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-73 ..... c 33 N78-13320 *
US-PATENT-CLASS-357-74 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-74 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-76 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-79 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-7 ..... c 33 N75-31331 *
US-PATENT-CLASS-357-81 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-81 ..... c 33 N88-23941 *
US-PATENT-CLASS-357-81 ..... c 33 N90-20282 *
US-PATENT-CLASS-357-82 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-82 ..... c 76 N91-28014 *
US-PATENT-CLASS-357-83 ..... c 37 N79-28549 *
US-PATENT-CLASS-357-90 ..... c 35 N90-21358 *
US-PATENT-CLASS-357-91 ..... c 76 N75-25730 *
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US-PATENT-CLASS-358-101 ..... c 37 N86-21850 *
US-PATENT-CLASS-358-104 ..... c 09 N78-18083 *
US-PATENT-CLASS-358-104 ..... c 74 N79-13855 *
US-PATENT-CLASS-358-104 ..... c 36 N83-34304 *
US-PATENT-CLASS-358-105 ..... c 39 N83-20280 *
US-PATENT-CLASS-358-105 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-105 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-106 ..... c 39 N78-16387 *
US-PATENT-CLASS-358-107 ..... c 35 N79-18296 *
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US-PATENT-CLASS-358-109 ..... c 32 N79-20297 *
US-PATENT-CLASS-358-109 ..... c 33 N81-33403 *
US-PATENT-CLASS-358-109 ..... c 43 N82-13465 *
US-PATENT-CLASS-358-109 ..... c 36 N83-34304 *
US-PATENT-CLASS-358-109 ..... c 32 N85-29117 *
US-PATENT-CLASS-358-109 ..... c 35 N90-22769 *
US-PATENT-CLASS-358-111 ..... c 52 N79-10724 *
US-PATENT-CLASS-358-113 ..... c 35 N90-22770 *
US-PATENT-CLASS-358-125 ..... c 74 N84-23247 *
US-PATENT-CLASS-358-125 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-133 ..... c 32 N77-24328 *
US-PATENT-CLASS-358-133 ..... c 32 N85-29117 *
US-PATENT-CLASS-358-133 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-138 ..... c 32 N77-24328 *
US-PATENT-CLASS-358-138 ..... c 17 N87-25348 *
US-PATENT-CLASS-358-142 ..... c 74 N78-14889 *
US-PATENT-CLASS-358-161 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-168 ..... c 32 N86-20647 *
US-PATENT-CLASS-358-174 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-213 ..... c 33 N81-33403 *
US-PATENT-CLASS-358-213 ..... c 33 N82-24416 *
US-PATENT-CLASS-358-213 ..... c 74 N84-23247 *
US-PATENT-CLASS-358-217 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-219 ..... c 32 N85-21427 *
US-PATENT-CLASS-358-222 ..... c 74 N86-28732 *
US-PATENT-CLASS-358-225 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-36 ..... c 32 N75-21485 *
US-PATENT-CLASS-358-41 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-44 ..... c 74 N77-18893 *
US-PATENT-CLASS-358-55 ..... c 74 N78-17865 *
US-PATENT-CLASS-358-81 ..... c 32 N79-20297 *
US-PATENT-CLASS-358-88 ..... c 74 N86-21348 *
US-PATENT-CLASS-358-88 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-91 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-92 ..... c 32 N89-28676 *
US-PATENT-CLASS-358-93 ..... c 35 N90-22770 *
US-PATENT-CLASS-358-96 ..... c 52 N79-10724 *
US-PATENT-CLASS-36-119 ..... c 54 N78-17675 *
US-PATENT-CLASS-36-92 ..... c 54 N78-17675 *
US-PATENT-CLASS-360-101 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-10 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-25 ..... c 35 N77-17426 *
US-PATENT-CLASS-360-26 ..... c 33 N76-18353 *
US-PATENT-CLASS-360-31 ..... c 35 N77-17426 *
US-PATENT-CLASS-360-35 ..... c 35 N76-16391 *
US-PATENT-CLASS-360-51 ..... c 33 N76-18353 *
US-PATENT-CLASS-360-9 ..... c 35 N76-16391 *
US-PATENT-CLASS-361-100 ..... c 33 N83-34190 *
US-PATENT-CLASS-361-141 ..... c 33 N82-11357 *
US-PATENT-CLASS-361-170 ..... c 33 N79-28415 *
US-PATENT-CLASS-361-218 ..... c 03 N88-14083 *
US-PATENT-CLASS-361-222 ..... c 03 N88-14083 *
US-PATENT-CLASS-361-226 ..... c 28 N82-18401 *
US-PATENT-CLASS-361-230 ..... c 28 N82-18401 *
US-PATENT-CLASS-361-283 ..... c 33 N82-26572 *
US-PATENT-CLASS-361-334 ..... c 35 N81-26431 *
US-PATENT-CLASS-361-383 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-384 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-385 ..... c 31 N90-21215 *
US-PATENT-CLASS-361-395 ..... c 32 N78-24391 *
US-PATENT-CLASS-361-56 ..... c 33 N81-27397 *
US-PATENT-CLASS-361-65 ..... c 33 N90-20320 *
US-PATENT-CLASS-361-79 ..... c 33 N90-20320 *
US-PATENT-CLASS-361-91 ..... c 33 N81-27397 *
US-PATENT-CLASS-362-11 ..... c 74 N81-17886 *
US-PATENT-CLASS-362-241 ..... c 74 N81-17886 *
US-PATENT-CLASS-362-269 ..... c 17 N78-17140 *
US-PATENT-CLASS-363-100 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-101 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-101 ..... c 33 N81-19392 *
US-PATENT-CLASS-363-132 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-134 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-147 ..... c 44 N81-12542 *
US-PATENT-CLASS-363-16 ..... c 33 N78-32341 *
US-PATENT-CLASS-363-17 ..... c 33 N82-18494 *
US-PATENT-CLASS-363-19 ..... c 33 N85-29147 *
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US-PATENT-CLASS-363-21 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-22 ..... c 33 N84-33663 *
US-PATENT-CLASS-363-23 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-24 ..... c 33 N81-33404 *
US-PATENT-CLASS-363-25 ..... c 33 N84-16453 *
US-PATENT-CLASS-363-27 ..... c 44 N81-12542 *
US-PATENT-CLASS-363-36 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-40 ..... c 33 N81-19393 *
US-PATENT-CLASS-363-47 ..... c 33 N81-19393 *

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US-PATENT-CLASS-363-53 ..... c 33 N77-30365 *
US-PATENT-CLASS-363-54 ..... c 33 N83-34190 *
US-PATENT-CLASS-363-56 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-56 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-56 ..... c 33 N81-33404 *
US-PATENT-CLASS-363-57 ..... c 33 N78-10377 *
US-PATENT-CLASS-363-60 ..... c 33 N78-32341 *
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US-PATENT-CLASS-363-71 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-71 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-71 ..... c 33 N81-14220 *
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US-PATENT-CLASS-363-71 ..... c 33 N85-29147 *
US-PATENT-CLASS-363-78 ..... c 33 N81-14220 *
US-PATENT-CLASS-363-87 ..... c 33 N83-10345 *
US-PATENT-CLASS-363-89 ..... c 33 N78-10377 *
US-PATENT-CLASS-363-95 ..... c 33 N79-24257 *
US-PATENT-CLASS-363-97 ..... c 33 N79-24254 *
US-PATENT-CLASS-363-97 ..... c 09 N88-28939 *
US-PATENT-CLASS-364-106 ..... c 07 N81-19115 *
US-PATENT-CLASS-364-120 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-131 ..... c 60 N89-26400 *
US-PATENT-CLASS-364-200 ..... c 62 N81-24779 *
US-PATENT-CLASS-364-200 ..... c 60 N81-27814 *
US-PATENT-CLASS-364-200 ..... c 60 N83-25378 *
US-PATENT-CLASS-364-200 ..... c 60 N83-32342 *
US-PATENT-CLASS-364-200 ..... c 32 N85-21428 *
US-PATENT-CLASS-364-200 ..... c 60 N85-21992 *
US-PATENT-CLASS-364-200 ..... c 60 N88-29310 *
US-PATENT-CLASS-364-200 ..... c 62 N91-25693 * #
US-PATENT-CLASS-364-228.3 .... c 62 N91-14769 *
US-PATENT-CLASS-364-229.4 .... c 60 N90-21527 *
US-PATENT-CLASS-364-231.9 .... c 62 N91-14769 *
US-PATENT-CLASS-364-267.9 .... c 60 N90-21527 *
US-PATENT-CLASS-364-280 ..... c 62 N91-14769 *
US-PATENT-CLASS-364-281.3 .... c 62 N91-25693 * #
US-PATENT-CLASS-364-281.6 .... c 62 N91-25693 * #
US-PATENT-CLASS-364-281.8 .... c 62 N91-25693 * #
US-PATENT-CLASS-364-281 ..... c 62 N91-14769 *
US-PATENT-CLASS-364-281 ..... c 62 N91-25693 * #
US-PATENT-CLASS-364-300 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-300 ..... c 62 N91-14769 *
US-PATENT-CLASS-364-400 ..... c 33 N85-29142 *
US-PATENT-CLASS-364-413 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-415 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-415 ..... c 35 N84-12445 *
US-PATENT-CLASS-364-417 ..... c 52 N79-10724 *
US-PATENT-CLASS-364-427 ..... c 09 N90-20096 *
US-PATENT-CLASS-364-427 ..... c 04 N91-31120 *
US-PATENT-CLASS-364-428 ..... c 04 N91-31120 *
US-PATENT-CLASS-364-431 ..... c 07 N81-19115 *
US-PATENT-CLASS-364-433 ..... c 06 N86-27280 *
US-PATENT-CLASS-364-433 ..... c 09 N91-14356 *
US-PATENT-CLASS-364-434 ..... c 08 N79-23097 *
US-PATENT-CLASS-364-434 ..... c 08 N81-24106 *
US-PATENT-CLASS-364-435 ..... c 06 N86-27280 *
US-PATENT-CLASS-364-452 ..... c 04 N84-27713 *
US-PATENT-CLASS-364-453 ..... c 18 N81-29152 *
US-PATENT-CLASS-364-453 ..... c 33 N85-29142 *
US-PATENT-CLASS-364-458 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-478 ..... c 37 N91-21544 *
US-PATENT-CLASS-364-481 ..... c 33 N90-19492 *
US-PATENT-CLASS-364-482 ..... c 33 N90-19492 *
US-PATENT-CLASS-364-484 ..... c 33 N89-14385 *
US-PATENT-CLASS-364-487 ..... c 17 N91-14371 *
US-PATENT-CLASS-364-500 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-510 ..... c 34 N81-26402 *
US-PATENT-CLASS-364-513 ..... c 61 N91-14741 *
US-PATENT-CLASS-364-513 ..... c 37 N91-21542 *
US-PATENT-CLASS-364-513 ..... c 37 N91-21544 *
US-PATENT-CLASS-364-513 ..... c 33 N91-31528 *
US-PATENT-CLASS-364-513 ..... c 63 N91-31885 *
US-PATENT-CLASS-364-513 ..... c 62 N91-32852 *
US-PATENT-CLASS-364-514 ..... c 33 N81-33405 *
US-PATENT-CLASS-364-522 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-550 ..... c 17 N91-14371 *
US-PATENT-CLASS-364-556 ..... c 36 N85-29264 *
US-PATENT-CLASS-364-557 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-557 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-558 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-558 ..... c 07 N84-22559 *
US-PATENT-CLASS-364-559 ..... c 39 N83-20280 *
US-PATENT-CLASS-364-560 ..... c 43 N79-26439 *
US-PATENT-CLASS-364-561 ..... c 36 N88-24958 *
US-PATENT-CLASS-364-566 ..... c 18 N81-29152 *
US-PATENT-CLASS-364-571 ..... c 34 N81-26402 *
US-PATENT-CLASS-364-571 ..... c 35 N84-14491 *
US-PATENT-CLASS-364-571 ..... c 33 N85-34333 *
US-PATENT-CLASS-364-571 ..... c 25 N88-29002 *
US-PATENT-CLASS-364-578 ..... c 33 N85-34333 *
US-PATENT-CLASS-364-578 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-578 ..... c 61 N91-14741 *
US-PATENT-CLASS-364-578 ..... c 32 N91-25317 *
US-PATENT-CLASS-364-604 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-713 ..... c 32 N79-20297 *
US-PATENT-CLASS-364-713 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-717 ..... c 32 N82-31583 *
US-PATENT-CLASS-364-717 ..... c 33 N90-23636 *
US-PATENT-CLASS-364-723 ..... c 60 N85-33701 *
US-PATENT-CLASS-364-724.01 .. c 33 N89-28713 *
US-PATENT-CLASS-364-724.05 .. c 33 N89-28713 *
US-PATENT-CLASS-364-728 ..... c 32 N79-14267 *
US-PATENT-CLASS-364-728 ..... c 60 N86-21154 *
US-PATENT-CLASS-364-728 ..... c 60 N88-24169 *
US-PATENT-CLASS-364-735 ..... c 33 N89-28713 *
US-PATENT-CLASS-364-746.1 .... c 33 N90-23636 *
US-PATENT-CLASS-364-754 ..... c 33 N89-28713 *
US-PATENT-CLASS-364-757 ..... c 60 N88-24169 *
US-PATENT-CLASS-364-807 ..... c 62 N91-32852 *
US-PATENT-CLASS-364-822 ..... c 32 N83-18975 *
US-PATENT-CLASS-364-822 ..... c 74 N86-21348 *
US-PATENT-CLASS-364-822 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-825 ..... c 33 N82-24417 *
US-PATENT-CLASS-364-837 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-841 ..... c 74 N91-26918 *
US-PATENT-CLASS-364-853 ..... c 60 N85-33701 *
US-PATENT-CLASS-364-861 ..... c 32 N83-18975 *
US-PATENT-CLASS-364-900 ..... c 52 N79-12694 *
US-PATENT-CLASS-364-900 ..... c 60 N79-20751 *
US-PATENT-CLASS-364-900 ..... c 60 N81-27814 *
US-PATENT-CLASS-364-900 ..... c 60 N83-32342 *
US-PATENT-CLASS-364-900 ..... c 60 N84-28491 *
US-PATENT-CLASS-364-900 ..... c 60 N84-28492 *
US-PATENT-CLASS-364-900 ..... c 33 N89-14384 *
US-PATENT-CLASS-364-900 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-924.4 .... c 35 N90-23713 *
US-PATENT-CLASS-364-925.1 .... c 35 N90-23713 *
US-PATENT-CLASS-364-933.8 .... c 35 N90-23713 *
US-PATENT-CLASS-364-934 ..... c 35 N90-23713 *
US-PATENT-CLASS-364-940.67 .. c 60 N90-21527 *
US-PATENT-CLASS-364-942.51 .. c 60 N90-21527 *
US-PATENT-CLASS-364-944 ..... c 60 N90-21527 *
US-PATENT-CLASS-364-975.5 .... c 60 N90-21527 *
US-PATENT-CLASS-365-120 ..... c 33 N81-29342 *
US-PATENT-CLASS-365-156 ..... c 60 N91-31810 *
US-PATENT-CLASS-365-200 ..... c 60 N91-31810 *
US-PATENT-CLASS-365-768 ..... c 32 N86-27513 *
US-PATENT-CLASS-366-106 ..... c 71 N84-28568 *
US-PATENT-CLASS-366-114 ..... c 71 N83-35781 *
US-PATENT-CLASS-367-100 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-102 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-181 ..... c 33 N82-26572 *
US-PATENT-CLASS-367-189 ..... c 35 N84-22933 *
US-PATENT-CLASS-367-191 ..... c 71 N88-24241 *
US-PATENT-CLASS-367-26 ..... c 39 N80-10507 *
US-PATENT-CLASS-367-27 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-36 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-57 ..... c 31 N80-32584 *
US-PATENT-CLASS-367-88 ..... c 32 N82-18443 *
US-PATENT-CLASS-367-88 ..... c 32 N83-31918 *
US-PATENT-CLASS-367-88 ..... c 43 N86-19711 *
US-PATENT-CLASS-367-908 ..... c 35 N89-14407 *
US-PATENT-CLASS-367-95 ..... c 32 N82-23376 *
US-PATENT-CLASS-367-99 ..... c 32 N87-14559 *
US-PATENT-CLASS-368-184 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-200 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-201 ..... c 33 N83-36357 *
US-PATENT-CLASS-368-47 ..... c 33 N81-14221 *
US-PATENT-CLASS-37N ..... c 27 N81-15104 *
US-PATENT-CLASS-370-100 ..... c 60 N82-16747 *
US-PATENT-CLASS-370-16 ..... c 62 N90-19776 *
US-PATENT-CLASS-370-58 ..... c 60 N81-27814 *
US-PATENT-CLASS-370-67 ..... c 33 N82-29538 *
US-PATENT-CLASS-370-85.4 ..... c 62 N91-14772 *
US-PATENT-CLASS-370-85.6 ..... c 62 N91-14772 *
US-PATENT-CLASS-370-85.9 ..... c 62 N91-14772 *
US-PATENT-CLASS-370-85 ..... c 33 N81-14221 *
US-PATENT-CLASS-370-94.3 ..... c 62 N91-14772 *
US-PATENT-CLASS-371-041 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-043 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-11.3 ..... c 60 N90-21527 *
US-PATENT-CLASS-371-20 ..... c 33 N81-26359 *
US-PATENT-CLASS-371-25 ..... c 33 N81-26359 *
US-PATENT-CLASS-371-37.4 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-37 ..... c 60 N87-21591 *
US-PATENT-CLASS-371-38.1 ..... c 17 N90-21061 *
US-PATENT-CLASS-371-40.1 ..... c 60 N91-31810 *
US-PATENT-CLASS-371-40 ..... c 60 N87-21591 *
US-PATENT-CLASS-371-43 ..... c 33 N87-25531 *
US-PATENT-CLASS-371-43 ..... c 32 N91-14523 *
US-PATENT-CLASS-371-63 ..... c 17 N87-16863 *
US-PATENT-CLASS-371-68 ..... c 60 N82-29013 *
US-PATENT-CLASS-371-6 ..... c 32 N83-13323 *
US-PATENT-CLASS-371-8 ..... c 62 N90-19776 *
US-PATENT-CLASS-372-100 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-103 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-103 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-108 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-18 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-19 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-20 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-20 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-25 ..... c 33 N83-34189 *
US-PATENT-CLASS-372-28 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-32 ..... c 36 N84-22943 *
US-PATENT-CLASS-372-32 ..... c 33 N85-34333 *
US-PATENT-CLASS-372-38 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-39 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-41 ..... c 36 N91-15528 *
US-PATENT-CLASS-372-43 ..... c 36 N87-23960 *
US-PATENT-CLASS-372-46 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-4 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-4 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-50 ..... c 36 N85-30305 *
US-PATENT-CLASS-372-55 ..... c 36 N84-16542 *
US-PATENT-CLASS-372-56 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-56 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-58 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-59 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-59 ..... c 25 N90-20154 *
US-PATENT-CLASS-372-59 ..... c 25 N91-21270 *
US-PATENT-CLASS-372-60 ..... c 36 N83-10417 *
US-PATENT-CLASS-372-61 ..... c 74 N87-14971 *
US-PATENT-CLASS-372-66 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-68 ..... c 36 N87-23961 *
US-PATENT-CLASS-372-69 ..... c 36 N87-25567 *
US-PATENT-CLASS-372-70 ..... c 36 N91-17360 * #
US-PATENT-CLASS-372-71 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-71 ..... c 36 N91-15528 *
US-PATENT-CLASS-372-74 ..... c 35 N84-12444 *
US-PATENT-CLASS-372-75 ..... c 36 N91-15528 *
US-PATENT-CLASS-372-79 ..... c 36 N84-16542 *
US-PATENT-CLASS-372-79 ..... c 36 N86-29204 *
US-PATENT-CLASS-372-81 ..... c 36 N87-23961 *
US-PATENT-CLASS-372-82 ..... c 36 N82-28616 *
US-PATENT-CLASS-372-93 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-93 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-94 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-95 ..... c 36 N84-28065 *
US-PATENT-CLASS-372-98 ..... c 36 N84-14509 *
US-PATENT-CLASS-372-99 ..... c 36 N87-25567 *
US-PATENT-CLASS-373-10 ..... c 35 N87-23944 *
US-PATENT-CLASS-373-15 ..... c 35 N87-23944 *
US-PATENT-CLASS-374-115 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-117 ..... c 52 N85-30618 *
US-PATENT-CLASS-374-120 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-122 ..... c 06 N83-10040 *
US-PATENT-CLASS-374-122 ..... c 43 N85-21723 *
US-PATENT-CLASS-374-122 ..... c 32 N87-21206 *
US-PATENT-CLASS-374-123 ..... c 06 N83-10040 *
US-PATENT-CLASS-374-124 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-126 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-130 ..... c 36 N90-17132 *
US-PATENT-CLASS-374-137 ..... c 36 N85-21639 *
US-PATENT-CLASS-374-160 ..... c 52 N85-30618 *
US-PATENT-CLASS-374-162R .... c 74 N82-30071 *
US-PATENT-CLASS-374-162 ..... c 35 N90-22770 *
US-PATENT-CLASS-374-163 ..... c 35 N86-19580 *
US-PATENT-CLASS-374-17 ..... c 35 N83-29650 *
US-PATENT-CLASS-374-180 ..... c 35 N91-31608 *
US-PATENT-CLASS-374-183 ..... c 33 N86-32624 *
US-PATENT-CLASS-374-1 ..... c 35 N84-28019 *
US-PATENT-CLASS-374-208 ..... c 37 N85-21651 *
US-PATENT-CLASS-374-208 ..... c 35 N91-31608 *
US-PATENT-CLASS-374-210 ..... c 37 N85-21651 *
US-PATENT-CLASS-374-29 ..... c 35 N91-31608 *
US-PATENT-CLASS-374-36 ..... c 25 N88-29002 *
US-PATENT-CLASS-374-46 ..... c 34 N83-34221 *
US-PATENT-CLASS-374-46 ..... c 25 N86-19413 *
US-PATENT-CLASS-374-49 ..... c 14 N91-27175 *
US-PATENT-CLASS-374-50 ..... c 14 N91-27175 *
US-PATENT-CLASS-374-51 ..... c 39 N83-32081 *
US-PATENT-CLASS-374-8 ..... c 25 N86-19413 *
US-PATENT-CLASS-374-8 ..... c 09 N91-21157 *
US-PATENT-CLASS-374-8 ..... c 25 N91-32196 *
US-PATENT-CLASS-374-9 ..... c 32 N87-21206 *
US-PATENT-CLASS-375-101 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-102 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-104 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-106 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-106 ..... c 32 N82-31583 *
US-PATENT-CLASS-375-107 ..... c 32 N81-14186 *
US-PATENT-CLASS-375-110 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-114 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-115 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-116 ..... c 60 N82-16747 *
US-PATENT-CLASS-375-120 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-120 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-120 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-1 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-1 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-1 ..... c 33 N81-33405 *

US-PATENT-CLASS-375-23 ..... c 32 N87-21207 *
US-PATENT-CLASS-375-34 ..... c 35 N81-19427 *
US-PATENT-CLASS-375-39 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-53 ..... c 32 N91-14523 *
US-PATENT-CLASS-375-53 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-53 ..... c 32 N91-25318 *
US-PATENT-CLASS-375-53 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-54 ..... c 33 N81-15192 *
US-PATENT-CLASS-375-54 ..... c 32 N87-25511 *
US-PATENT-CLASS-375-54 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-56 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-56 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-57 ..... c 32 N91-14523 *
US-PATENT-CLASS-375-58 ..... c 32 N81-15179 *
US-PATENT-CLASS-375-59 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-67 ..... c 33 N81-15192 *
US-PATENT-CLASS-375-76 ..... c 33 N87-25531 *
US-PATENT-CLASS-375-77 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-80 ..... c 04 N91-14321 *
US-PATENT-CLASS-375-81 ..... c 32 N84-27952 *
US-PATENT-CLASS-375-85 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-85 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-86 ..... c 32 N91-25318 *
US-PATENT-CLASS-375-86 ..... c 32 N91-27439 *
US-PATENT-CLASS-375-88 ..... c 17 N87-16863 *
US-PATENT-CLASS-375-94 ..... c 04 N91-14321 *
US-PATENT-CLASS-375-97 ..... c 32 N91-25316 *
US-PATENT-CLASS-375-99 ..... c 35 N81-19427 *
US-PATENT-CLASS-376-127 ..... c 72 N87-21661 *
US-PATENT-CLASS-376-159 ..... c 25 N85-21279 *
US-PATENT-CLASS-377-111 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-114 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-116 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-123 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-126 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-39 ..... c 33 N89-14385 *
US-PATENT-CLASS-377-69 ..... c 60 N90-21525 *
US-PATENT-CLASS-377-79 ..... c 60 N90-21525 *
US-PATENT-CLASS-378-104 ..... c 33 N85-29147 *
US-PATENT-CLASS-378-112 ..... c 33 N85-29147 *
US-PATENT-CLASS-378-2 ..... c 34 N83-19015 *
US-PATENT-CLASS-378-2 ..... c 74 N84-11920 *
US-PATENT-CLASS-378-43 ..... c 34 N83-19015 *
US-PATENT-CLASS-378-43 ..... c 74 N86-20124 *
US-PATENT-CLASS-378-51 ..... c 38 N90-23756 *
US-PATENT-CLASS-378-58 ..... c 74 N86-20126 *
US-PATENT-CLASS-378-58 ..... c 38 N90-23756 *
US-PATENT-CLASS-378-59 ..... c 74 N86-20126 *
US-PATENT-CLASS-378-85 ..... c 74 N86-20124 *
US-PATENT-CLASS-380-25 ..... c 60 N90-25583 *
US-PATENT-CLASS-380-45 ..... c 60 N90-25583 *
US-PATENT-CLASS-380-49 ..... c 60 N90-25583 *
US-PATENT-CLASS-381-183 ..... c 54 N89-29953 *
US-PATENT-CLASS-381-187 ..... c 54 N89-29953 *
US-PATENT-CLASS-381-26 ..... c 35 N91-27522 *
US-PATENT-CLASS-381-68.1 ..... c 35 N91-27522 *
US-PATENT-CLASS-381-71 ..... c 71 N91-27913 *
US-PATENT-CLASS-381-92 ..... c 35 N91-27522 *
US-PATENT-CLASS-381-94 ..... c 71 N91-27913 *
US-PATENT-CLASS-382-31 ..... c 74 N89-14078 *
US-PATENT-CLASS-382-31 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-32 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-41 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-42 ..... c 74 N86-21348 *
US-PATENT-CLASS-382-42 ..... c 60 N88-24169 *
US-PATENT-CLASS-382-42 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-43 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-49 ..... c 60 N89-26400 *
US-PATENT-CLASS-382-49 ..... c 74 N91-25840 *
US-PATENT-CLASS-382-6 ..... c 74 N91-25840 *
US-PATENT-CLASS-384-101 ..... c 37 N85-33490 *
US-PATENT-CLASS-384-103 ..... c 37 N86-19606 *
US-PATENT-CLASS-384-106 ..... c 37 N86-19606 *
US-PATENT-CLASS-384-124 ..... c 27 N83-34043 *
US-PATENT-CLASS-384-99 ..... c 37 N85-33490 *
US-PATENT-CLASS-388-821 ..... c 33 N90-21951 *
US-PATENT-CLASS-39-25.35 ..... c 33 N86-20671 *
US-PATENT-CLASS-4-DIG.9 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-10 ..... c 54 N74-20725 *
US-PATENT-CLASS-4-110 ..... c 05 N72-22093 *
US-PATENT-CLASS-4-120 ..... c 54 N74-20725 *
US-PATENT-CLASS-4-144.3 ..... c 52 N81-24711 *
US-PATENT-CLASS-4-144.3 ..... c 52 N81-28740 *
US-PATENT-CLASS-4-209R ..... c 54 N91-14723 *
US-PATENT-CLASS-4-316 ..... c 54 N91-14723 *
US-PATENT-CLASS-4-316 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-482 ..... c 54 N91-14723 *
US-PATENT-CLASS-4-482 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-498 ..... c 44 N84-34792 *
US-PATENT-CLASS-4-661 ..... c 54 N91-14724 *
US-PATENT-CLASS-4-99 ..... c 05 N72-22093 *
US-PATENT-CLASS-40-28 ..... c 12 N71-18603 *
US-PATENT-CLASS-403-102 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-102 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-105 ..... c 37 N79-14382 *
US-PATENT-CLASS-403-113 ..... c 37 N86-19605 *
US-PATENT-CLASS-403-113 ..... c 37 N91-17387 *
US-PATENT-CLASS-403-119 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-120 ..... c 37 N86-19605 *
US-PATENT-CLASS-403-131 ..... c 37 N91-21543 *
US-PATENT-CLASS-403-143 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-146 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-146 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-147 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-156 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-15 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-163 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-164 ..... c 54 N86-29507 * #
US-PATENT-CLASS-403-16 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-171 ..... c 31 N81-25258 *
US-PATENT-CLASS-403-171 ..... c 31 N86-19479 *
US-PATENT-CLASS-403-171 ..... c 37 N88-29180 *
US-PATENT-CLASS-403-171 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-171 ..... c 18 N91-21221 *
US-PATENT-CLASS-403-176 ..... c 18 N91-21221 *
US-PATENT-CLASS-403-179 ..... c 27 N76-14264 *
US-PATENT-CLASS-403-217 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-217 ..... c 37 N88-29180 *
US-PATENT-CLASS-403-252 ..... c 18 N91-21221 *
US-PATENT-CLASS-403-273 ..... c 37 N77-23482 *
US-PATENT-CLASS-403-282 ..... c 26 N83-10170 *
US-PATENT-CLASS-403-28 ..... c 27 N76-14264 *
US-PATENT-CLASS-403-28 ..... c 37 N85-29285 *
US-PATENT-CLASS-403-291 ..... c 37 N91-17387 *
US-PATENT-CLASS-403-30 ..... c 18 N89-28554 *
US-PATENT-CLASS-403-312 ..... c 37 N86-27630 *
US-PATENT-CLASS-403-315 ..... c 37 N82-24494 *
US-PATENT-CLASS-403-317 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-317 ..... c 37 N85-21649 *
US-PATENT-CLASS-403-317 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-322 ..... c 18 N84-22605 *
US-PATENT-CLASS-403-322 ..... c 37 N85-30334 *
US-PATENT-CLASS-403-322 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-322 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-322 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-325 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-327 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-327 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-328 ..... c 18 N86-20469 *
US-PATENT-CLASS-403-328 ..... c 37 N90-17154 *
US-PATENT-CLASS-403-331 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-331 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-331 ..... c 37 N91-14614 *
US-PATENT-CLASS-403-334 ..... c 37 N91-15544 *
US-PATENT-CLASS-403-340 ..... c 37 N82-32732 *
US-PATENT-CLASS-403-341 ..... c 18 N87-27713 *
US-PATENT-CLASS-403-348 ..... c 37 N85-30336 *
US-PATENT-CLASS-403-381 ..... c 37 N91-14610 *
US-PATENT-CLASS-403-385 ..... c 37 N91-14617 *
US-PATENT-CLASS-403-388 ..... c 37 N86-27630 *
US-PATENT-CLASS-403-391 ..... c 37 N91-14617 *
US-PATENT-CLASS-403-408.1 .... c 37 N86-27630 *
US-PATENT-CLASS-403-408 ..... c 37 N85-29285 *
US-PATENT-CLASS-403-4 ..... c 18 N89-28554 *
US-PATENT-CLASS-403-51 ..... c 18 N89-28553 *
US-PATENT-CLASS-403-56 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-57 ..... c 37 N91-17387 *
US-PATENT-CLASS-403-64 ..... c 31 N86-19479 *
US-PATENT-CLASS-403-72 ..... c 18 N91-27199 *
US-PATENT-CLASS-403-76 ..... c 18 N85-29991 *
US-PATENT-CLASS-403-85 ..... c 18 N87-14373 *
US-PATENT-CLASS-403-90 ..... c 18 N85-29991 *
US-PATENT-CLASS-405-188 ..... c 18 N90-20126 *
US-PATENT-CLASS-405-188 ..... c 18 N91-14374 *
US-PATENT-CLASS-405-229 ..... c 44 N79-24432 *
US-PATENT-CLASS-405-263 ..... c 44 N79-24432 *
US-PATENT-CLASS-406-155 ..... c 37 N84-16561 *
US-PATENT-CLASS-407-117 ..... c 37 N81-14319 *
US-PATENT-CLASS-407-85 ..... c 37 N81-14319 *
US-PATENT-CLASS-408-1-R ..... c 31 N87-25491 *
US-PATENT-CLASS-408-1R ..... c 37 N81-14319 *
US-PATENT-CLASS-408-1R ..... c 31 N83-27058 *
US-PATENT-CLASS-408-111 ..... c 37 N74-25968 *
US-PATENT-CLASS-408-112 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-137 ..... c 15 N71-33518 *
US-PATENT-CLASS-408-186 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-193 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-195 ..... c 37 N75-25186 *
US-PATENT-CLASS-408-61 ..... c 31 N83-27058 *
US-PATENT-CLASS-408-80 ..... c 37 N74-25968 *
US-PATENT-CLASS-409-131 ..... c 31 N83-27058 *
US-PATENT-CLASS-41R ..... c 27 N81-15104 *
US-PATENT-CLASS-410-156 ..... c 37 N85-34401 *
US-PATENT-CLASS-410-79 ..... c 18 N85-29991 *
US-PATENT-CLASS-410-80 ..... c 37 N91-27561 *
US-PATENT-CLASS-410-84 ..... c 37 N91-27561 *
US-PATENT-CLASS-410-90 ..... c 18 N85-29991 *
US-PATENT-CLASS-411-103 ..... c 37 N85-30335 *
US-PATENT-CLASS-411-108 ..... c 37 N85-30335 *
US-PATENT-CLASS-411-166 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-353 ..... c 37 N83-19091 *
US-PATENT-CLASS-411-368 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-368 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-378 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-424 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-426 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-427 ..... c 37 N87-22976 *
US-PATENT-CLASS-411-501 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-517 ..... c 37 N83-19091 *
US-PATENT-CLASS-411-531 ..... c 37 N85-29285 *
US-PATENT-CLASS-411-531 ..... c 37 N87-22976 *
US-PATENT-CLASS-414-1 ..... c 37 N80-14398 *
US-PATENT-CLASS-414-1 ..... c 37 N81-14320 *
US-PATENT-CLASS-414-1 ..... c 54 N86-28618 *
US-PATENT-CLASS-414-217 ..... c 37 N85-29286 *
US-PATENT-CLASS-414-217 ..... c 31 N91-15423 *
US-PATENT-CLASS-414-220 ..... c 31 N91-15423 *
US-PATENT-CLASS-414-222 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-226 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-288 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-328 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-373 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-4 ..... c 37 N79-28551 *
US-PATENT-CLASS-414-4 ..... c 54 N81-26718 *
US-PATENT-CLASS-414-4 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-5 ..... c 54 N86-28618 *
US-PATENT-CLASS-414-689 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-6 ..... c 54 N79-24652 *
US-PATENT-CLASS-414-718 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-718 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-729 ..... c 37 N91-14616 *
US-PATENT-CLASS-414-730 ..... c 37 N81-27519 *
US-PATENT-CLASS-414-730 ..... c 37 N86-19603 *
US-PATENT-CLASS-414-735 ..... c 54 N81-26718 *
US-PATENT-CLASS-414-735 ..... c 18 N88-23828 *
US-PATENT-CLASS-414-735 ..... c 18 N89-12621 *
US-PATENT-CLASS-414-739 ..... c 37 N82-32731 *
US-PATENT-CLASS-414-744A .... c 54 N81-26718 *
US-PATENT-CLASS-414-750 ..... c 18 N88-23828 *
US-PATENT-CLASS-414-753 ..... c 37 N86-20789 *
US-PATENT-CLASS-414-786 ..... c 85 N85-34722 *
US-PATENT-CLASS-414-7 ..... c 54 N86-28618 *
US-PATENT-CLASS-414-7 ..... c 54 N86-28620 *
US-PATENT-CLASS-414-7 ..... c 37 N91-14616 *
US-PATENT-CLASS-414-8 ..... c 54 N86-28618 *
US-PATENT-CLASS-415-DIG.8 .... c 44 N82-24639 *
US-PATENT-CLASS-415-DIG.8 .... c 44 N84-23018 *
US-PATENT-CLASS-415-101 ..... c 44 N80-21828 *
US-PATENT-CLASS-415-115 ..... c 07 N79-10057 *
US-PATENT-CLASS-415-115 ..... c 34 N83-27144 *
US-PATENT-CLASS-415-115 ..... c 07 N84-33410 *
US-PATENT-CLASS-415-115 ..... c 34 N85-33433 *
US-PATENT-CLASS-415-116 ..... c 07 N79-10057 *
US-PATENT-CLASS-415-118 ..... c 35 N83-35338 *
US-PATENT-CLASS-415-136 ..... c 37 N88-23978 *
US-PATENT-CLASS-415-143 ..... c 34 N79-20335 *
US-PATENT-CLASS-415-145 ..... c 07 N77-28118 *
US-PATENT-CLASS-415-145 ..... c 07 N82-32366 *
US-PATENT-CLASS-415-170.1 .... c 37 N91-14608 *
US-PATENT-CLASS-415-170-R ... c 37 N88-23978 *
US-PATENT-CLASS-415-174.5 .... c 37 N91-14608 *
US-PATENT-CLASS-415-174 ..... c 37 N79-18318 *
US-PATENT-CLASS-415-174 ..... c 37 N80-26658 *
US-PATENT-CLASS-415-174 ..... c 37 N82-19540 *
US-PATENT-CLASS-415-174 ..... c 27 N82-29453 *
US-PATENT-CLASS-415-174 ..... c 18 N83-20996 *
US-PATENT-CLASS-415-174 ..... c 37 N84-22957 *
US-PATENT-CLASS-415-174 ..... c 37 N86-20788 *
US-PATENT-CLASS-415-175 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-178 ..... c 07 N82-32366 *
US-PATENT-CLASS-415-178 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-180 ..... c 07 N77-23106 *
US-PATENT-CLASS-415-180 ..... c 37 N78-10467 *
US-PATENT-CLASS-415-181 ..... c 07 N74-28226 *
US-PATENT-CLASS-415-181 ..... c 07 N74-31270 *
US-PATENT-CLASS-415-196 ..... c 37 N80-26658 *
US-PATENT-CLASS-415-196 ..... c 37 N82-19540 *
US-PATENT-CLASS-415-197 ..... c 18 N83-20996 *
US-PATENT-CLASS-415-199 ..... c 05 N80-14107 *
US-PATENT-CLASS-415-1 ..... c 34 N79-20335 *
US-PATENT-CLASS-415-1 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-1 ..... c 37 N85-29282 *
US-PATENT-CLASS-415-2R ..... c 44 N82-24639 *
US-PATENT-CLASS-415-2R ..... c 44 N84-23018 *
US-PATENT-CLASS-415-200 ..... c 07 N79-14096 *
US-PATENT-CLASS-415-200 ..... c 37 N79-18318 *
US-PATENT-CLASS-415-201 ..... c 07 N79-14096 *
US-PATENT-CLASS-415-229 ..... c 37 N91-14608 *
US-PATENT-CLASS-415-2 ..... c 44 N80-21828 *
US-PATENT-CLASS-415-47 ..... c 07 N83-31603 *
US-PATENT-CLASS-415-68 ..... c 37 N85-29282 *
US-PATENT-CLASS-415-9 ..... c 44 N79-14527 *
US-PATENT-CLASS-416-104 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-114 ..... c 05 N81-19087 *
US-PATENT-CLASS-416-114 ..... c 08 N87-23631 *
US-PATENT-CLASS-416-115 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-117 ..... c 37 N84-12493 *
US-PATENT-CLASS-416-121 ..... c 02 N72-11018 *

US-PATENT-CLASS-416-127 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-130 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-132B .... c 37 N84-12493 *
US-PATENT-CLASS-416-132R .... c 05 N79-17847 *
US-PATENT-CLASS-416-135 ..... c 07 N77-32148 *
US-PATENT-CLASS-416-135 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-138 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-138 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-141 ..... c 05 N77-17029 *
US-PATENT-CLASS-416-141 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-144 ..... c 35 N78-24515 *
US-PATENT-CLASS-416-145 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-149 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-153 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-157B .... c 07 N79-14095 *
US-PATENT-CLASS-416-158 ..... c 08 N87-23631 *
US-PATENT-CLASS-416-160 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-160 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-162 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-162 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-165 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-167 ..... c 07 N77-14025 *
US-PATENT-CLASS-416-167 ..... c 07 N79-14095 *
US-PATENT-CLASS-416-190 ..... c 07 N77-32148 *
US-PATENT-CLASS-416-193A .... c 07 N77-32148 *
US-PATENT-CLASS-416-1 ..... c 34 N83-27144 *
US-PATENT-CLASS-416-200 ..... c 02 N72-11018 *
US-PATENT-CLASS-416-214A .... c 07 N78-33101 *
US-PATENT-CLASS-416-220R .... c 07 N77-27116 *
US-PATENT-CLASS-416-220R .... c 37 N78-10468 *
US-PATENT-CLASS-416-221 ..... c 07 N77-27116 *
US-PATENT-CLASS-416-223-R ... c 02 N89-14224 *
US-PATENT-CLASS-416-223R .... c 02 N84-11136 *
US-PATENT-CLASS-416-223R .... c 02 N84-28732 *
US-PATENT-CLASS-416-223 ..... c 07 N74-28226 *
US-PATENT-CLASS-416-224 ..... c 24 N77-19170 *
US-PATENT-CLASS-416-224 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-228 ..... c 05 N80-14107 *
US-PATENT-CLASS-416-230 ..... c 24 N77-19170 *
US-PATENT-CLASS-416-233 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-237 ..... c 07 N74-28226 *
US-PATENT-CLASS-416-238 ..... c 05 N80-14107 *
US-PATENT-CLASS-416-23 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-241A .... c 07 N77-32148 *
US-PATENT-CLASS-416-241R .... c 26 N84-33555 *
US-PATENT-CLASS-416-242 ..... c 02 N84-11136 *
US-PATENT-CLASS-416-242 ..... c 02 N84-28732 *
US-PATENT-CLASS-416-244A .... c 07 N78-33101 *
US-PATENT-CLASS-416-248 ..... c 37 N78-10468 *
US-PATENT-CLASS-416-25 ..... c 05 N75-12930 *
US-PATENT-CLASS-416-2 ..... c 44 N79-14527 *
US-PATENT-CLASS-416-500 ..... c 05 N81-19087 *
US-PATENT-CLASS-416-500 ..... c 05 N85-29947 *
US-PATENT-CLASS-416-51 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-61 ..... c 35 N78-24515 *
US-PATENT-CLASS-416-61 ..... c 37 N79-14382 *
US-PATENT-CLASS-416-88 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-89 ..... c 05 N79-17847 *
US-PATENT-CLASS-416-92 ..... c 07 N84-22560 *
US-PATENT-CLASS-416-97A ..... c 34 N85-33433 *
US-PATENT-CLASS-416-97R ..... c 34 N83-27144 *
US-PATENT-CLASS-416-97R ..... c 07 N84-22560 *
US-PATENT-CLASS-416-9 ..... c 37 N90-23742 *
US-PATENT-CLASS-417-138 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-141 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-152 ..... c 15 N72-22489 *
US-PATENT-CLASS-417-159 ..... c 09 N84-27749 *
US-PATENT-CLASS-417-15 ..... c 37 N83-26078 *
US-PATENT-CLASS-417-190 ..... c 35 N91-21496 *
US-PATENT-CLASS-417-207 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-209 ..... c 34 N76-17317 *
US-PATENT-CLASS-417-209 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-225 ..... c 35 N78-10428 *
US-PATENT-CLASS-417-328 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-36 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-379 ..... c 44 N76-29701 *
US-PATENT-CLASS-417-383 ..... c 37 N80-31790 *
US-PATENT-CLASS-417-391 ..... c 15 N73-24513 *
US-PATENT-CLASS-417-392 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-395 ..... c 35 N75-19611 *
US-PATENT-CLASS-417-399 ..... c 44 N83-14693 *
US-PATENT-CLASS-417-417 ..... c 44 N83-28574 *
US-PATENT-CLASS-417-417 ..... c 31 N85-21404 *
US-PATENT-CLASS-417-462 ..... c 37 N84-28081 *
US-PATENT-CLASS-417-470 ..... c 35 N74-15126 *
US-PATENT-CLASS-417-471 ..... c 35 N74-15126 *
US-PATENT-CLASS-417-475 ..... c 37 N86-32738 *
US-PATENT-CLASS-417-488 ..... c 31 N85-21404 *
US-PATENT-CLASS-417-50 ..... c 15 N71-27084 *
US-PATENT-CLASS-417-52 ..... c 37 N74-27904 *
US-PATENT-CLASS-417-53 ..... c 31 N90-23587 *
US-PATENT-CLASS-417-572 ..... c 31 N90-23587 *
US-PATENT-CLASS-417-88 ..... c 44 N78-32539 *
US-PATENT-CLASS-418-113 ..... c 37 N82-16408 *
US-PATENT-CLASS-418-142 ..... c 37 N82-16408 *
US-PATENT-CLASS-419-14 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-24 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-24 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-30 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-32 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-36 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-36 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-36 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-37 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-37 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-38 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-39 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-48 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-49 ..... c 24 N91-17145 *
US-PATENT-CLASS-419-49 ..... c 24 N91-27244 *
US-PATENT-CLASS-419-8 ..... c 24 N90-23493 *
US-PATENT-CLASS-419-8 ..... c 24 N91-17145 *
US-PATENT-CLASS-42-1.13 ..... c 03 N91-15142 *
US-PATENT-CLASS-42-1F ..... c 11 N72-22247 *
US-PATENT-CLASS-42-101 ..... c 44 N86-25874 *
US-PATENT-CLASS-42-215 ..... c 44 N76-29704 *
US-PATENT-CLASS-420-445 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-460 ..... c 26 N87-14482 *
US-PATENT-CLASS-420-529 ..... c 26 N89-28621 *
US-PATENT-CLASS-420-533 ..... c 26 N89-28621 *
US-PATENT-CLASS-420-54 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-551 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-588 ..... c 26 N82-31505 *
US-PATENT-CLASS-420-62 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-79 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-80 ..... c 26 N89-14303 *
US-PATENT-CLASS-420-81 ..... c 26 N89-14303 *
US-PATENT-CLASS-421-209 ..... c 33 N91-31529 *
US-PATENT-CLASS-421-457 ..... c 33 N91-31529 *
US-PATENT-CLASS-422-101 ..... c 51 N91-31755 *
US-PATENT-CLASS-422-103 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-104 ..... c 09 N91-21157 *
US-PATENT-CLASS-422-109 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-111 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-121 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-126 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-129 ..... c 37 N85-21652 *
US-PATENT-CLASS-422-169 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-178 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-186 ..... c 25 N82-28368 *
US-PATENT-CLASS-422-186 ..... c 35 N84-17555 *
US-PATENT-CLASS-422-187 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-198 ..... c 25 N82-28368 *
US-PATENT-CLASS-422-199 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-199 ..... c 37 N85-21652 *
US-PATENT-CLASS-422-200 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-202 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-208 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-224 ..... c 31 N80-18231 *
US-PATENT-CLASS-422-224 ..... c 44 N83-10501 *
US-PATENT-CLASS-422-235 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-242 ..... c 37 N80-10494 *
US-PATENT-CLASS-422-245 ..... c 76 N90-23242 *
US-PATENT-CLASS-422-245 ..... c 76 N90-24169 *
US-PATENT-CLASS-422-246 ..... c 76 N80-32244 *
US-PATENT-CLASS-422-246 ..... c 33 N81-19389 *
US-PATENT-CLASS-422-246 ..... c 76 N82-30105 *
US-PATENT-CLASS-422-246 ..... c 76 N84-35113 *
US-PATENT-CLASS-422-246 ..... c 76 N88-24544 *
US-PATENT-CLASS-422-249 ..... c 33 N81-19389 *
US-PATENT-CLASS-422-249 ..... c 76 N84-35113 *
US-PATENT-CLASS-422-249 ..... c 76 N90-20896 *
US-PATENT-CLASS-422-251 ..... c 76 N88-14835 *
US-PATENT-CLASS-422-260 ..... c 76 N88-14835 *
US-PATENT-CLASS-422-27 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-30 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-34 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-3 ..... c 54 N81-24724 *
US-PATENT-CLASS-422-40 ..... c 35 N82-11432 *
US-PATENT-CLASS-422-41 ..... c 52 N79-14749 *
US-PATENT-CLASS-422-48 ..... c 52 N79-14749 *
US-PATENT-CLASS-422-50 ..... c 76 N90-24169 *
US-PATENT-CLASS-422-52 ..... c 51 N80-16714 *
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US-PATENT-CLASS-422-62 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-68 ..... c 51 N80-27067 *
US-PATENT-CLASS-422-78 ..... c 25 N86-19413 *
US-PATENT-CLASS-422-78 ..... c 09 N91-21157 *
US-PATENT-CLASS-422-80 ..... c 25 N82-12166 *
US-PATENT-CLASS-422-80 ..... c 09 N91-21157 *
US-PATENT-CLASS-422-86 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-88 ..... c 35 N85-29213 *
US-PATENT-CLASS-422-98 ..... c 35 N90-22025 *
US-PATENT-CLASS-422-99 ..... c 51 N91-31755 *
US-PATENT-CLASS-422-9 ..... c 45 N80-14579 *
US-PATENT-CLASS-423-DIG.10 . c 24 N84-22695 *
US-PATENT-CLASS-423-DIG.10 . c 31 N85-20153 *
US-PATENT-CLASS-423-131 ..... c 28 N81-15119 *
US-PATENT-CLASS-423-149 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-1 ..... c 28 N81-15119 *
US-PATENT-CLASS-423-231 ..... c 25 N74-12813 *
US-PATENT-CLASS-423-235 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-242 ..... c 45 N79-12584 *
US-PATENT-CLASS-423-247 ..... c 25 N91-21270 *
US-PATENT-CLASS-423-249 ..... c 25 N76-27383 *
US-PATENT-CLASS-423-276 ..... c 23 N87-23698 *
US-PATENT-CLASS-423-284 ..... c 23 N87-23698 *
US-PATENT-CLASS-423-293 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-303 ..... c 44 N84-23019 *
US-PATENT-CLASS-423-33-5 ..... c 25 N79-28253 *
US-PATENT-CLASS-423-338 ..... c 76 N87-29360 *
US-PATENT-CLASS-423-339 ..... c 76 N87-29360 *
US-PATENT-CLASS-423-345 ..... c 76 N76-25049 *
US-PATENT-CLASS-423-345 ..... c 76 N79-23798 *
US-PATENT-CLASS-423-346 ..... c 76 N76-25049 *
US-PATENT-CLASS-423-348 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-350 ..... c 37 N80-10494 *
US-PATENT-CLASS-423-350 ..... c 31 N80-18231 *
US-PATENT-CLASS-423-352 ..... c 36 N76-18427 *
US-PATENT-CLASS-423-407 ..... c 24 N76-14203 *
US-PATENT-CLASS-423-414 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-414 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-417 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-419P .... c 25 N83-33977 *
US-PATENT-CLASS-423-439 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-445 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-445 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-445 ..... c 24 N85-21267 *
US-PATENT-CLASS-423-446 ..... c 15 N73-19457 *
US-PATENT-CLASS-423-446 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-446 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-446 ..... c 24 N85-21267 *
US-PATENT-CLASS-423-447.2 .... c 24 N83-25789 *
US-PATENT-CLASS-423-447.6 .... c 24 N83-25789 *
US-PATENT-CLASS-423-447.7 .... c 24 N83-25789 *
US-PATENT-CLASS-423-448 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-449 ..... c 24 N84-22695 *
US-PATENT-CLASS-423-449 ..... c 31 N85-20153 *
US-PATENT-CLASS-423-449 ..... c 24 N85-21267 *
US-PATENT-CLASS-423-460 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-489 ..... c 24 N91-15320 *
US-PATENT-CLASS-423-539 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-540 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-542 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-579 ..... c 46 N74-13011 *
US-PATENT-CLASS-423-579 ..... c 25 N82-28368 *
US-PATENT-CLASS-423-581 ..... c 25 N79-10162 *
US-PATENT-CLASS-423-582 ..... c 26 N78-32229 *
US-PATENT-CLASS-423-583 ..... c 26 N78-32229 *
US-PATENT-CLASS-423-600 ..... c 25 N83-33977 *
US-PATENT-CLASS-423-625 ..... c 15 N73-19457 *
US-PATENT-CLASS-423-625 ..... c 26 N80-14229 *
US-PATENT-CLASS-423-644 ..... c 36 N76-18427 *
US-PATENT-CLASS-423-648R .... c 44 N77-22607 *
US-PATENT-CLASS-423-648R .... c 28 N78-24365 *
US-PATENT-CLASS-423-648R .... c 28 N80-20402 *
US-PATENT-CLASS-423-648R .... c 28 N81-14103 *
US-PATENT-CLASS-423-648R .... c 25 N82-28368 *
US-PATENT-CLASS-423-648R .... c 25 N83-29324 *
US-PATENT-CLASS-423-649 ..... c 25 N83-29324 *
US-PATENT-CLASS-423-650 ..... c 44 N76-18642 *
US-PATENT-CLASS-423-650 ..... c 44 N76-29700 *
US-PATENT-CLASS-423-650 ..... c 44 N76-29704 *
US-PATENT-CLASS-423-650 ..... c 44 N77-10636 *
US-PATENT-CLASS-423-650 ..... c 28 N80-10374 *
US-PATENT-CLASS-423-655 ..... c 28 N91-14495 *
US-PATENT-CLASS-423-658.5 .... c 28 N81-15119 *
US-PATENT-CLASS-424-12 ..... c 25 N79-14169 *
US-PATENT-CLASS-424-12 ..... c 51 N80-16715 *
US-PATENT-CLASS-424-156 ..... c 25 N83-33977 *
US-PATENT-CLASS-424-180 ..... c 52 N75-15270 *
US-PATENT-CLASS-424-247 ..... c 52 N81-29764 *
US-PATENT-CLASS-424-267 ..... c 52 N81-29764 *
US-PATENT-CLASS-424-274 ..... c 52 N81-14613 *
US-PATENT-CLASS-424-274 ..... c 52 N81-29764 *
US-PATENT-CLASS-424-3 ..... c 51 N77-27677 *
US-PATENT-CLASS-425-DIG.43 . c 31 N75-13111 *
US-PATENT-CLASS-425-10 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-113 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-128 ..... c 31 N74-32920 *
US-PATENT-CLASS-425-133 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-176 ..... c 15 N73-13464 *
US-PATENT-CLASS-425-28B ..... c 31 N74-32917 *
US-PATENT-CLASS-425-35 ..... c 31 N74-32917 *
US-PATENT-CLASS-425-378R .... c 31 N81-15154 *
US-PATENT-CLASS-425-4-R ..... c 27 N88-23894 *
US-PATENT-CLASS-425-405R .... c 31 N75-13111 *
US-PATENT-CLASS-425-415 ..... c 31 N74-32920 *
US-PATENT-CLASS-425-425 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-435 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-438 ..... c 31 N75-13111 *
US-PATENT-CLASS-425-468 ..... c 31 N75-13111 *
US-PATENT-CLASS-425-5 ..... c 34 N90-23700 *
US-PATENT-CLASS-425-6 ..... c 31 N81-33319 *
US-PATENT-CLASS-425-6 ..... c 27 N82-28442 *
US-PATENT-CLASS-425-6 ..... c 31 N83-31896 *
US-PATENT-CLASS-425-6 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-6 ..... c 71 N84-28568 *

US-PATENT-CLASS-425-6 ..... c 26 N86-32551 *
US-PATENT-CLASS-425-6 ..... c 34 N90-23700 *
US-PATENT-CLASS-425-73 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-75 ..... c 31 N90-19425 *
US-PATENT-CLASS-425-77 ..... c 15 N72-20446 *
US-PATENT-CLASS-425-7 ..... c 31 N83-35176 *
US-PATENT-CLASS-425-804 ..... c 34 N90-23700 *
US-PATENT-CLASS-427-113 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-113 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-113 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-115 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-115 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-115 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-123 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-124 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-125 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-125 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-126.6 .... c 26 N84-22734 *
US-PATENT-CLASS-427-126 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-126 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-130 ..... c 44 N77-32583 *
US-PATENT-CLASS-427-140 ..... c 27 N82-33520 *
US-PATENT-CLASS-427-140 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-160 ..... c 34 N77-18382 *
US-PATENT-CLASS-427-160 ..... c 44 N78-19599 *
US-PATENT-CLASS-427-162 ..... c 12 N76-15189 *
US-PATENT-CLASS-427-162 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-164 ..... c 27 N78-14164 *
US-PATENT-CLASS-427-164 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-164 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-164 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-164 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-165 ..... c 27 N86-31727 *
US-PATENT-CLASS-427-178 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-191 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-191 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-192 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-196 ..... c 27 N76-15310 *
US-PATENT-CLASS-427-203 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-204 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-205 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-205 ..... c 27 N82-28441 *
US-PATENT-CLASS-427-215 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-215 ..... c 24 N83-33950 *
US-PATENT-CLASS-427-216 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-217 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-219.2 .... c 27 N83-31855 *
US-PATENT-CLASS-427-221 ..... c 27 N81-19296 *
US-PATENT-CLASS-427-226 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-226 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-228 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-229 ..... c 25 N78-10225 *
US-PATENT-CLASS-427-229 ..... c 37 N87-21334 *
US-PATENT-CLASS-427-230 ..... c 37 N76-31524 *
US-PATENT-CLASS-427-240 ..... c 37 N81-33482 *
US-PATENT-CLASS-427-241 ..... c 24 N83-33950 *
US-PATENT-CLASS-427-243 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-244 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-245 ..... c 27 N80-23452 *
US-PATENT-CLASS-427-245 ..... c 31 N88-29052 *
US-PATENT-CLASS-427-246 ..... c 25 N82-21268 *
US-PATENT-CLASS-427-247 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-248.1 .... c 27 N86-19458 *
US-PATENT-CLASS-427-248E ..... c 37 N78-13436 *
US-PATENT-CLASS-427-248J ..... c 44 N78-24609 *
US-PATENT-CLASS-427-248 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-249 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-249 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-250 ..... c 12 N76-15189 *
US-PATENT-CLASS-427-250 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-250 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-253 ..... c 27 N82-28441 *
US-PATENT-CLASS-427-255 ..... c 37 N78-13436 *
US-PATENT-CLASS-427-261 ..... c 44 N78-25527 *
US-PATENT-CLASS-427-261 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-270 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-272 ..... c 31 N90-19427 *
US-PATENT-CLASS-427-272 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-275 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-282 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-287 ..... c 27 N76-16229 *
US-PATENT-CLASS-427-290 ..... c 24 N90-25197 *
US-PATENT-CLASS-427-292 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-292 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-294 ..... c 27 N79-14214 *
US-PATENT-CLASS-427-294 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-296 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-2 ..... c 52 N90-20616 *
US-PATENT-CLASS-427-302 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-302 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-306 ..... c 26 N84-22734 *
US-PATENT-CLASS-427-318 ..... c 26 N83-31795 *
US-PATENT-CLASS-427-322 ..... c 34 N77-18382 *
US-PATENT-CLASS-427-322 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-322 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-327 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-328 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-340 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-343 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-346 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-34 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-34 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-34 ..... c 27 N82-29453 *
US-PATENT-CLASS-427-34 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-34 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-34 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-34 ..... c 26 N84-27855 *
US-PATENT-CLASS-427-34 ..... c 75 N91-25875 *
US-PATENT-CLASS-427-350 ..... c 24 N79-25142 *
US-PATENT-CLASS-427-352 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-355 ..... c 24 N79-17916 *
US-PATENT-CLASS-427-372.2 .... c 27 N82-33520 *
US-PATENT-CLASS-427-372.2 .... c 44 N84-28205 *
US-PATENT-CLASS-427-372A .... c 24 N79-25142 *
US-PATENT-CLASS-427-376.2 .... c 26 N85-35267 *
US-PATENT-CLASS-427-376.6 .... c 33 N84-16456 *
US-PATENT-CLASS-427-376.7 .... c 33 N84-16456 *
US-PATENT-CLASS-427-376A .... c 27 N78-32260 *
US-PATENT-CLASS-427-376B .... c 27 N78-32260 *
US-PATENT-CLASS-427-376B .... c 24 N79-17916 *
US-PATENT-CLASS-427-376C .... c 24 N79-17916 *
US-PATENT-CLASS-427-376 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-376 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-379 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-379 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-379 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-379 ..... c 27 N81-19296 *
US-PATENT-CLASS-427-379 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-379 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-379 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-37 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-380 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-380 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-380 ..... c 27 N78-32260 *
US-PATENT-CLASS-427-380 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-380 ..... c 26 N85-35267 *
US-PATENT-CLASS-427-384 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-384 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-385.5 .... c 27 N81-14078 *
US-PATENT-CLASS-427-385.5 .... c 27 N86-20561 *
US-PATENT-CLASS-427-385B .... c 44 N78-25530 *
US-PATENT-CLASS-427-385C .... c 44 N78-25530 *
US-PATENT-CLASS-427-386 ..... c 24 N78-27180 *
US-PATENT-CLASS-427-387 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-387 ..... c 24 N83-13171 *
US-PATENT-CLASS-427-387 ..... c 24 N83-13172 *
US-PATENT-CLASS-427-388.1 .... c 27 N86-20561 *
US-PATENT-CLASS-427-388A .... c 24 N78-27180 *
US-PATENT-CLASS-427-38 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-38 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-38 ..... c 26 N85-29005 *
US-PATENT-CLASS-427-38 ..... c 27 N86-19458 *
US-PATENT-CLASS-427-38 ..... c 26 N88-14179 *
US-PATENT-CLASS-427-393.3 .... c 27 N82-16238 *
US-PATENT-CLASS-427-397.7 .... c 27 N82-33520 *
US-PATENT-CLASS-427-397.7 .... c 26 N85-35267 *
US-PATENT-CLASS-427-398A .... c 44 N79-11472 *
US-PATENT-CLASS-427-399 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-399 ..... c 36 N84-22944 *
US-PATENT-CLASS-427-39 ..... c 24 N85-21267 *
US-PATENT-CLASS-427-39 ..... c 31 N86-32587 *
US-PATENT-CLASS-427-400 ..... c 27 N83-34039 *
US-PATENT-CLASS-427-402 ..... c 27 N76-22377 *
US-PATENT-CLASS-427-402 ..... c 27 N76-23426 *
US-PATENT-CLASS-427-405 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-405 ..... c 27 N82-28441 *
US-PATENT-CLASS-427-405 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-405 ..... c 26 N84-27855 *
US-PATENT-CLASS-427-407.1 .... c 27 N83-34039 *
US-PATENT-CLASS-427-40 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-40 ..... c 27 N79-18052 *
US-PATENT-CLASS-427-40 ..... c 27 N80-24437 *
US-PATENT-CLASS-427-419.2 .... c 26 N83-31795 *
US-PATENT-CLASS-427-419.2 .... c 26 N84-27855 *
US-PATENT-CLASS-427-419A .... c 34 N78-18355 *
US-PATENT-CLASS-427-41 ..... c 27 N78-31233 *
US-PATENT-CLASS-427-41 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-41 ..... c 27 N79-14214 *
US-PATENT-CLASS-427-41 ..... c 27 N79-18052 *
US-PATENT-CLASS-427-41 ..... c 27 N80-23452 *
US-PATENT-CLASS-427-421 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-421 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-422 ..... c 24 N85-30027 *
US-PATENT-CLASS-427-423 ..... c 34 N78-18355 *
US-PATENT-CLASS-427-423 ..... c 27 N82-29453 *
US-PATENT-CLASS-427-423 ..... c 27 N83-31855 *
US-PATENT-CLASS-427-423 ..... c 31 N83-35177 *
US-PATENT-CLASS-427-423 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-425 ..... c 37 N82-24492 *
US-PATENT-CLASS-427-426 ..... c 27 N76-15310 *
US-PATENT-CLASS-427-426 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-427 ..... c 24 N78-24290 *
US-PATENT-CLASS-427-427 ..... c 26 N86-32550 *
US-PATENT-CLASS-427-429 ..... c 27 N81-14078 *
US-PATENT-CLASS-427-436 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-437 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-443.2 .... c 25 N84-12262 *
US-PATENT-CLASS-427-443 ..... c 44 N84-28205 *
US-PATENT-CLASS-427-44 ..... c 74 N78-32854 *
US-PATENT-CLASS-427-44 ..... c 27 N80-32516 *
US-PATENT-CLASS-427-47 ..... c 44 N77-32583 *
US-PATENT-CLASS-427-47 ..... c 26 N85-29005 *
US-PATENT-CLASS-427-4 ..... c 51 N77-27677 *
US-PATENT-CLASS-427-53.1 ..... c 36 N84-22944 *
US-PATENT-CLASS-427-53.1 ..... c 37 N84-22957 *
US-PATENT-CLASS-427-531 ..... c 44 N82-28780 *
US-PATENT-CLASS-427-57 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-58 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-6 ..... c 71 N84-16940 *
US-PATENT-CLASS-427-74 ..... c 44 N82-28780 *
US-PATENT-CLASS-427-75 ..... c 44 N78-25527 *
US-PATENT-CLASS-427-75 ..... c 44 N79-11468 *
US-PATENT-CLASS-427-75 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-75 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-84 ..... c 44 N79-11472 *
US-PATENT-CLASS-427-85 ..... c 44 N85-20530 *
US-PATENT-CLASS-427-86 ..... c 44 N76-28635 *
US-PATENT-CLASS-427-86 ..... c 44 N78-24609 *
US-PATENT-CLASS-427-88 ..... c 44 N79-31752 *
US-PATENT-CLASS-427-88 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-88 ..... c 33 N84-16456 *
US-PATENT-CLASS-427-89 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-90 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-91 ..... c 44 N83-13579 *
US-PATENT-CLASS-427-95 ..... c 25 N79-28253 *
US-PATENT-CLASS-427-96 ..... c 33 N84-16456 *
US-PATENT-CLASS-428-109 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-109 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-113 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-114 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-114 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-116 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-116 ..... c 24 N78-17149 *
US-PATENT-CLASS-428-116 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-117 ..... c 37 N76-24575 *
US-PATENT-CLASS-428-117 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-117 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-119 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-133 ..... c 37 N79-10422 *
US-PATENT-CLASS-428-137 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-138 ..... c 24 N78-10214 *
US-PATENT-CLASS-428-139 ..... c 23 N81-29160 *
US-PATENT-CLASS-428-140 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-141 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-141 ..... c 27 N82-28440 *
US-PATENT-CLASS-428-141 ..... c 27 N82-33521 *
US-PATENT-CLASS-428-155 ..... c 37 N84-22957 *
US-PATENT-CLASS-428-161 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-182 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-182 ..... c 31 N89-12786 *
US-PATENT-CLASS-428-184 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-189 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-192 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-193 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-202 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-212 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-212 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-212 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-214 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-216 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-218 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-218 ..... c 24 N83-13171 *
US-PATENT-CLASS-428-220 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-241 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-241 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-242 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-244 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-245 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-245 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-246 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-246 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-247 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-247 ..... c 33 N82-26571 *
US-PATENT-CLASS-428-251 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-252 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-257 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-258 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-259 ..... c 33 N79-12331 *
US-PATENT-CLASS-428-260 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-260 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-260 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-260 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-260 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-262 ..... c 27 N87-14516 *
US-PATENT-CLASS-428-263 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-264 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-265 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-266 ..... c 27 N82-24339 *

US-PATENT-CLASS-428-267 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-272 ..... c 27 N82-16238 *
US-PATENT-CLASS-428-280 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-280 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-282 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-283 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-283 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-284 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-285 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-285 ..... c 24 N91-31236 *
US-PATENT-CLASS-428-286 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-286 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-287 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-287 ..... c 03 N84-33394 *
US-PATENT-CLASS-428-288 ..... c 24 N82-29362 *
US-PATENT-CLASS-428-288 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-289 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-290 ..... c 24 N78-15180 *
US-PATENT-CLASS-428-290 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-290 ..... c 27 N87-28657 *
US-PATENT-CLASS-428-290 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-294 ..... c 24 N78-17150 *
US-PATENT-CLASS-428-294 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-301 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-302 ..... c 24 N78-17150 *
US-PATENT-CLASS-428-303 ..... c 27 N76-15310 *
US-PATENT-CLASS-428-304.4 .... c 03 N84-33394 *
US-PATENT-CLASS-428-307.7 .... c 27 N82-29456 *
US-PATENT-CLASS-428-311.5 .... c 27 N82-29456 *
US-PATENT-CLASS-428-312.6 .... c 27 N82-29456 *
US-PATENT-CLASS-428-312.6 .... c 44 N83-34448 *
US-PATENT-CLASS-428-312 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-313 ..... c 24 N78-27180 *
US-PATENT-CLASS-428-317.9 .... c 27 N82-29456 *
US-PATENT-CLASS-428-319.1 .... c 03 N84-33394 *
US-PATENT-CLASS-428-325 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-325 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-325 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-328 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-328 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-331 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-331 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-332 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-332 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-332 ..... c 24 N78-27180 *
US-PATENT-CLASS-428-332 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-332 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-332 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-334 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-336 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-336 ..... c 27 N86-31727 *
US-PATENT-CLASS-428-339 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-341 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-347 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-35.9 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-35 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-366 ..... c 24 N79-24062 *
US-PATENT-CLASS-428-367 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-367 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-367 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-367 ..... c 27 N87-28656 *
US-PATENT-CLASS-428-367 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-367 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-368 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-368 ..... c 27 N83-18908 *
US-PATENT-CLASS-428-370 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-375 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-375 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-375 ..... c 27 N89-29538 *
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US-PATENT-CLASS-428-379 ..... c 24 N90-25196 *
US-PATENT-CLASS-428-390 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-392 ..... c 24 N83-33950 *
US-PATENT-CLASS-428-406 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-408 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-408 ..... c 27 N84-14322 *
US-PATENT-CLASS-428-408 ..... c 27 N84-22745 *
US-PATENT-CLASS-428-408 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-408 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-408 ..... c 27 N89-29538 *
US-PATENT-CLASS-428-408 ..... c 52 N90-20616 *
US-PATENT-CLASS-428-40 ..... c 27 N84-14323 *
US-PATENT-CLASS-428-410 ..... c 23 N86-19376 *
US-PATENT-CLASS-428-411 ..... c 27 N78-14164 *
US-PATENT-CLASS-428-411 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-411 ..... c 27 N79-14214 *
US-PATENT-CLASS-428-412 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-412 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-412 ..... c 74 N78-32854 *
US-PATENT-CLASS-428-412 ..... c 27 N79-18052 *
US-PATENT-CLASS-428-413 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-413 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-413 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-413 ..... c 27 N85-34281 *
US-PATENT-CLASS-428-413 ..... c 27 N87-25469 *
US-PATENT-CLASS-428-414 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-416 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-417 ..... c 27 N87-25469 *
US-PATENT-CLASS-428-418 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-418 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-421 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-421 ..... c 15 N79-26100 *
US-PATENT-CLASS-428-421 ..... c 27 N80-24437 *
US-PATENT-CLASS-428-421 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-421 ..... c 27 N87-16909 *
US-PATENT-CLASS-428-421 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-422 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-422 ..... c 76 N83-34796 *
US-PATENT-CLASS-428-422 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-422 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-423.5 .... c 03 N84-33394 *
US-PATENT-CLASS-428-425 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-426 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-427 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-427 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-428 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-428 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-428 ..... c 74 N78-15879 *
US-PATENT-CLASS-428-428 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-428 ..... c 44 N83-34448 *
US-PATENT-CLASS-428-432 ..... c 27 N84-33589 *
US-PATENT-CLASS-428-432 ..... c 76 N85-33826 *
US-PATENT-CLASS-428-446 ..... c 27 N78-32260 *
US-PATENT-CLASS-428-446 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-446 ..... c 27 N86-19458 *
US-PATENT-CLASS-428-447 ..... c 27 N76-14264 *
US-PATENT-CLASS-428-447 ..... c 27 N76-16230 *
US-PATENT-CLASS-428-447 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-447 ..... c 74 N78-32854 *
US-PATENT-CLASS-428-447 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-447 ..... c 27 N79-18052 *
US-PATENT-CLASS-428-447 ..... c 24 N79-25142 *
US-PATENT-CLASS-428-447 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-447 ..... c 27 N87-14516 *
US-PATENT-CLASS-428-447 ..... c 27 N87-23736 *
US-PATENT-CLASS-428-447 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-448 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-44 ..... c 24 N88-18628 *
US-PATENT-CLASS-428-44 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-450 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-450 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-450 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-450 ..... c 27 N79-12221 *
US-PATENT-CLASS-428-450 ..... c 26 N83-31795 *
US-PATENT-CLASS-428-450 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-451 ..... c 27 N79-18052 *
US-PATENT-CLASS-428-457 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-457 ..... c 24 N77-27188 *
US-PATENT-CLASS-428-457 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-457 ..... c 26 N82-30371 *
US-PATENT-CLASS-428-457 ..... c 76 N90-24168 *
US-PATENT-CLASS-428-458 ..... c 24 N77-28225 *
US-PATENT-CLASS-428-458 ..... c 24 N79-16915 *
US-PATENT-CLASS-428-458 ..... c 27 N86-20561 *
US-PATENT-CLASS-428-458 ..... c 54 N90-25498 *
US-PATENT-CLASS-428-461 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-462 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-466 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-469 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-469 ..... c 26 N83-31795 *
US-PATENT-CLASS-428-471 ..... c 26 N81-25188 *
US-PATENT-CLASS-428-472 ..... c 26 N82-30371 *
US-PATENT-CLASS-428-473.5 .... c 27 N81-14078 *
US-PATENT-CLASS-428-473.5 .... c 27 N81-29229 *
US-PATENT-CLASS-428-473.5 .... c 27 N84-14322 *
US-PATENT-CLASS-428-473.5 .... c 27 N86-19458 *
US-PATENT-CLASS-428-473.5 .... c 27 N86-20561 *
US-PATENT-CLASS-428-473.5 .... c 24 N86-25416 *
US-PATENT-CLASS-428-473.5 .... c 27 N86-31726 * #
US-PATENT-CLASS-428-473.5 .... c 27 N86-31727 *
US-PATENT-CLASS-428-473.5 .... c 27 N87-16909 *
US-PATENT-CLASS-428-473.5 .... c 27 N87-23736 *
US-PATENT-CLASS-428-474 ..... c 34 N77-18382 *
US-PATENT-CLASS-428-474.4 .... c 24 N86-25416 *
US-PATENT-CLASS-428-474.4 .... c 54 N90-25498 *
US-PATENT-CLASS-428-474 ..... c 27 N79-33316 *
US-PATENT-CLASS-428-474 ..... c 27 N80-24437 *
US-PATENT-CLASS-428-477.7 .... c 24 N86-25416 *
US-PATENT-CLASS-428-47 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-480 ..... c 24 N81-14000 *
US-PATENT-CLASS-428-493 ..... c 27 N82-24340 *
US-PATENT-CLASS-428-49 ..... c 27 N82-24339 *
US-PATENT-CLASS-428-49 ..... c 27 N82-29456 *
US-PATENT-CLASS-428-500 ..... c 27 N80-32516 *
US-PATENT-CLASS-428-500 ..... c 27 N87-16909 *
US-PATENT-CLASS-428-515 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-522 ..... c 27 N78-14164 *
US-PATENT-CLASS-428-523 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-528 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-538 ..... c 27 N76-22377 *
US-PATENT-CLASS-428-538 ..... c 27 N76-23426 *
US-PATENT-CLASS-428-538 ..... c 27 N78-31233 *
US-PATENT-CLASS-428-539 ..... c 27 N76-16229 *
US-PATENT-CLASS-428-541 ..... c 24 N81-13999 *
US-PATENT-CLASS-428-551 ..... c 24 N90-23493 *
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US-PATENT-CLASS-428-58 ..... c 27 N89-12741 *
US-PATENT-CLASS-428-593 ..... c 24 N82-24296 *
US-PATENT-CLASS-428-593 ..... c 24 N84-11214 *
US-PATENT-CLASS-428-594 ..... c 24 N82-24296 *
US-PATENT-CLASS-428-594 ..... c 24 N82-32417 *
US-PATENT-CLASS-428-595 ..... c 18 N84-33450 *
US-PATENT-CLASS-428-604 ..... c 24 N82-24296 *
US-PATENT-CLASS-428-604 ..... c 24 N82-32417 *
US-PATENT-CLASS-428-607 ..... c 24 N82-32417 *
US-PATENT-CLASS-428-607 ..... c 26 N87-25455 *
US-PATENT-CLASS-428-607 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-608 ..... c 24 N82-32417 *
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US-PATENT-CLASS-428-623 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-627 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-629 ..... c 44 N80-16452 *
US-PATENT-CLASS-428-632 ..... c 26 N81-25188 *
US-PATENT-CLASS-428-632 ..... c 26 N84-27855 *
US-PATENT-CLASS-428-632 ..... c 26 N87-25455 *
US-PATENT-CLASS-428-632 ..... c 24 N90-23480 *
US-PATENT-CLASS-428-633 ..... c 34 N78-18355 *
US-PATENT-CLASS-428-633 ..... c 27 N83-31855 *
US-PATENT-CLASS-428-633 ..... c 24 N85-21266 *
US-PATENT-CLASS-428-633 ..... c 24 N85-35233 *
US-PATENT-CLASS-428-639 ..... c 26 N84-33555 *
US-PATENT-CLASS-428-63 ..... c 24 N83-13172 *
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US-PATENT-CLASS-428-652 ..... c 44 N78-19599 *
US-PATENT-CLASS-428-656 ..... c 24 N85-21266 *
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US-PATENT-CLASS-428-698 ..... c 76 N85-33826 *
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US-PATENT-CLASS-428-698 ..... c 27 N89-29538 *
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US-PATENT-CLASS-428-702 ..... c 27 N87-23736 *
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US-PATENT-CLASS-428-73 ..... c 24 N78-15180 *
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US-PATENT-CLASS-428-74 ..... c 24 N88-18628 *
US-PATENT-CLASS-428-76 ..... c 03 N84-33394 *
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US-PATENT-CLASS-428-902 ..... c 24 N77-27188 *
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US-PATENT-CLASS-428-902 ..... c 24 N78-17149 *
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US-PATENT-CLASS-428-902 ..... c 31 N81-25258 *
US-PATENT-CLASS-428-902 ..... c 27 N81-27272 *
US-PATENT-CLASS-428-902 ..... c 27 N83-18908 *

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US-PATENT-CLASS-428-921 ..... c 24 N86-28131 *
US-PATENT-CLASS-428-922 ..... c 27 N78-14164 *
US-PATENT-CLASS-428-938 ..... c 27 N82-28441 *
US-PATENT-CLASS-428-93 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-941 ..... c 27 N82-28441 *
US-PATENT-CLASS-428-94 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-95 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-96 ..... c 34 N78-25350 *
US-PATENT-CLASS-428-97 ..... c 34 N78-25350 *
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US-PATENT-CLASS-429-101 ..... c 44 N79-26474 *
US-PATENT-CLASS-429-101 ..... c 33 N80-20487 *
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US-PATENT-CLASS-429-104 ..... c 33 N91-14536 *
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US-PATENT-CLASS-429-105 ..... c 33 N80-20487 *
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US-PATENT-CLASS-429-107 ..... c 44 N77-22606 *
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US-PATENT-CLASS-429-107 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-109 ..... c 33 N80-20487 *
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US-PATENT-CLASS-429-111 ..... c 44 N84-23019 *
US-PATENT-CLASS-429-120 ..... c 44 N81-24521 *
US-PATENT-CLASS-429-120 ..... c 33 N91-14538 *
US-PATENT-CLASS-429-139 ..... c 27 N80-32516 *
US-PATENT-CLASS-429-139 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-13 ..... c 44 N79-10513 *
US-PATENT-CLASS-429-144 ..... c 44 N82-29708 *
US-PATENT-CLASS-429-144 ..... c 44 N83-32176 *
US-PATENT-CLASS-429-15 ..... c 44 N79-26474 *
US-PATENT-CLASS-429-15 ..... c 44 N86-19721 *
US-PATENT-CLASS-429-160 ..... c 44 N81-24521 *
US-PATENT-CLASS-429-164 ..... c 44 N81-24521 *
US-PATENT-CLASS-429-190 ..... c 44 N77-22606 *
US-PATENT-CLASS-429-193 ..... c 44 N82-29710 *
US-PATENT-CLASS-429-19 ..... c 44 N86-19721 *
US-PATENT-CLASS-429-206 ..... c 25 N83-13188 *
US-PATENT-CLASS-429-206 ..... c 33 N84-14422 *
US-PATENT-CLASS-429-206 ..... c 33 N85-29144 *
US-PATENT-CLASS-429-213 ..... c 33 N91-14536 *
US-PATENT-CLASS-429-223 ..... c 26 N84-22734 *
US-PATENT-CLASS-429-223 ..... c 33 N91-27478 *
US-PATENT-CLASS-429-229 ..... c 33 N84-14422 *
US-PATENT-CLASS-429-234 ..... c 26 N84-22734 *
US-PATENT-CLASS-429-23 ..... c 44 N77-14581 *
US-PATENT-CLASS-429-249 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-249 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-249 ..... c 33 N85-29144 *
US-PATENT-CLASS-429-251 ..... c 44 N82-29708 *
US-PATENT-CLASS-429-251 ..... c 44 N83-32176 *
US-PATENT-CLASS-429-253 ..... c 44 N79-25481 *
US-PATENT-CLASS-429-253 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-253 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-253 ..... c 25 N83-13188 *
US-PATENT-CLASS-429-254 ..... c 44 N78-25530 *
US-PATENT-CLASS-429-254 ..... c 44 N82-29708 *
US-PATENT-CLASS-429-254 ..... c 44 N83-32176 *
US-PATENT-CLASS-429-27 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-27 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-27 ..... c 44 N86-25874 *
US-PATENT-CLASS-429-28 ..... c 27 N81-24257 *
US-PATENT-CLASS-429-28 ..... c 23 N81-29160 *
US-PATENT-CLASS-429-33 ..... c 44 N79-17313 *
US-PATENT-CLASS-429-33 ..... c 44 N82-29710 *
US-PATENT-CLASS-429-34 ..... c 44 N77-14581 *
US-PATENT-CLASS-429-34 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-40 ..... c 44 N82-29710 *
US-PATENT-CLASS-429-40 ..... c 44 N83-27344 *
US-PATENT-CLASS-429-41 ..... c 44 N79-10513 *
US-PATENT-CLASS-429-42 ..... c 44 N79-10513 *
US-PATENT-CLASS-429-44 ..... c 44 N84-28205 *
US-PATENT-CLASS-429-51 ..... c 44 N86-19721 *
US-PATENT-CLASS-429-57 ..... c 44 N86-25874 *
US-PATENT-CLASS-429-58 ..... c 35 N85-21596 *
US-PATENT-CLASS-429-94 ..... c 44 N81-24521 *
US-PATENT-CLASS-430-17 ..... c 35 N82-11432 *
US-PATENT-CLASS-430-271 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-325 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-329 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-330 ..... c 27 N81-25209 *
US-PATENT-CLASS-430-372 ..... c 35 N82-11432 *
US-PATENT-CLASS-431-10 ..... c 34 N78-27357 *
US-PATENT-CLASS-431-10 ..... c 25 N79-11151 *
US-PATENT-CLASS-431-116 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-11 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-13 ..... c 25 N88-29002 *
US-PATENT-CLASS-431-158 ..... c 25 N78-10224 *
US-PATENT-CLASS-431-162 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-163 ..... c 44 N76-29704 *
US-PATENT-CLASS-431-170 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-173 ..... c 23 N73-30665 *
US-PATENT-CLASS-431-1 ..... c 25 N84-16276 *
US-PATENT-CLASS-431-202 ..... c 25 N74-33378 *
US-PATENT-CLASS-431-208 ..... c 25 N79-11151 *
US-PATENT-CLASS-431-210 ..... c 44 N76-29704 *
US-PATENT-CLASS-431-2 ..... c 07 N81-29129 *
US-PATENT-CLASS-431-328 ..... c 34 N78-27357 *
US-PATENT-CLASS-431-352 ..... c 28 N71-28915 *
US-PATENT-CLASS-431-352 ..... c 25 N78-10224 *
US-PATENT-CLASS-431-352 ..... c 25 N90-11824 *
US-PATENT-CLASS-431-41 ..... c 44 N77-10636 *
US-PATENT-CLASS-431-4 ..... c 44 N76-29704 *
US-PATENT-CLASS-431-76 ..... c 25 N88-29002 *
US-PATENT-CLASS-431-7 ..... c 34 N78-27357 *
US-PATENT-CLASS-431-9 ..... c 23 N73-30665 *
US-PATENT-CLASS-432-18 ..... c 35 N86-20750 *
US-PATENT-CLASS-432-223 ..... c 25 N79-11151 *
US-PATENT-CLASS-432-227 ..... c 35 N83-24828 *
US-PATENT-CLASS-432-264 ..... c 33 N81-19389 *
US-PATENT-CLASS-432-29 ..... c 25 N79-11151 *
US-PATENT-CLASS-432-58 ..... c 35 N83-24828 *
US-PATENT-CLASS-433-118 ..... c 52 N82-29862 *
US-PATENT-CLASS-433-125 ..... c 52 N82-29862 *
US-PATENT-CLASS-433-86 ..... c 52 N82-29862 *
US-PATENT-CLASS-434-114 ..... c 82 N87-29372 *
US-PATENT-CLASS-434-242 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-243 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-2 ..... c 32 N84-27951 *
US-PATENT-CLASS-434-34 ..... c 14 N87-25344 *
US-PATENT-CLASS-434-35 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-38 ..... c 36 N83-34304 *
US-PATENT-CLASS-434-403 ..... c 31 N83-34073 *
US-PATENT-CLASS-434-42 ..... c 09 N82-24212 *
US-PATENT-CLASS-434-43 ..... c 09 N82-24212 *
US-PATENT-CLASS-434-49 ..... c 09 N85-19990 *
US-PATENT-CLASS-434-4 ..... c 36 N83-34304 *
US-PATENT-CLASS-434-4 ..... c 35 N86-32697 *
US-PATENT-CLASS-434-59 ..... c 54 N81-27806 *
US-PATENT-CLASS-434-88 ..... c 31 N83-34073 *
US-PATENT-CLASS-435-160 ..... c 23 N85-35227 *
US-PATENT-CLASS-435-284 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-285 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-285 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-286 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-286 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-286 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-289 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-289 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-289 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-290 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-291 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-291 ..... c 51 N81-28698 *
US-PATENT-CLASS-435-291 ..... c 35 N82-28604 *
US-PATENT-CLASS-435-291 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-292 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-30 ..... c 51 N91-31755 *
US-PATENT-CLASS-435-311 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-311 ..... c 51 N91-14703 *
US-PATENT-CLASS-435-311 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-311 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-312 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-312 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-313 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-315 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-316 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-316 ..... c 51 N91-14703 *
US-PATENT-CLASS-435-316 ..... c 51 N91-21700 *
US-PATENT-CLASS-435-316 ..... c 51 N91-21701 *
US-PATENT-CLASS-435-32 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-34 ..... c 51 N80-16714 *
US-PATENT-CLASS-435-34 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-34 ..... c 51 N81-28698 *
US-PATENT-CLASS-435-34 ..... c 35 N82-28604 *
US-PATENT-CLASS-435-34 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-34 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-38 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-38 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-38 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-39 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-39 ..... c 35 N82-28604 *
US-PATENT-CLASS-435-39 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-39 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-3 ..... c 51 N80-27067 *
US-PATENT-CLASS-435-3 ..... c 51 N83-27569 *
US-PATENT-CLASS-435-3 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-5 ..... c 51 N81-28698 *
US-PATENT-CLASS-435-807 ..... c 51 N83-28849 *
US-PATENT-CLASS-435-818 ..... c 51 N91-30667 *
US-PATENT-CLASS-435-842 ..... c 23 N85-35227 *
US-PATENT-CLASS-435-8 ..... c 51 N83-27569 *
US-PATENT-CLASS-436-137 ..... c 35 N90-22025 *
US-PATENT-CLASS-436-143 ..... c 35 N90-22025 *
US-PATENT-CLASS-436-155 ..... c 25 N86-19413 *
US-PATENT-CLASS-436-2 ..... c 35 N85-29213 *
US-PATENT-CLASS-436-55 ..... c 35 N90-22025 *
US-PATENT-CLASS-437-128 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-131 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-187 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-197 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-199 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-225 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-228 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-229 ..... c 25 N91-31258 *
US-PATENT-CLASS-437-235 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-238 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-239 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-247 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-248 ..... c 76 N91-28014 *
US-PATENT-CLASS-437-2 ..... c 44 N91-27614 *
US-PATENT-CLASS-437-3 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-7 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-8 ..... c 76 N88-14836 *
US-PATENT-CLASS-437-903 ..... c 76 N90-19884 *
US-PATENT-CLASS-437-930 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-936 ..... c 72 N91-14813 *
US-PATENT-CLASS-437-969 ..... c 76 N88-14836 *
US-PATENT-CLASS-439-271 ..... c 33 N88-14270 *
US-PATENT-CLASS-439-578 ..... c 33 N88-14270 *
US-PATENT-CLASS-44-1-SR ..... c 25 N85-35253 *
US-PATENT-CLASS-44-1R ..... c 44 N78-31527 *
US-PATENT-CLASS-44-1R ..... c 25 N81-33246 *
US-PATENT-CLASS-44-1SR ..... c 25 N82-29371 *
US-PATENT-CLASS-44-1SR ..... c 25 N83-31743 *
US-PATENT-CLASS-44-2 ..... c 44 N78-31527 *
US-PATENT-CLASS-44-2 ..... c 25 N81-33246 *
US-PATENT-CLASS-44-50 ..... c 27 N81-17261 *
US-PATENT-CLASS-44-51 ..... c 25 N79-11152 *
US-PATENT-CLASS-44-62 ..... c 27 N81-17261 *
US-PATENT-CLASS-44-7R ..... c 28 N81-14103 *
US-PATENT-CLASS-44-77 ..... c 06 N71-23499 *
US-PATENT-CLASS-441-83 ..... c 03 N91-31113 *
US-PATENT-CLASS-445-35 ..... c 37 N85-33489 *
US-PATENT-CLASS-455-102 ..... c 33 N81-15192 *
US-PATENT-CLASS-455-102 ..... c 33 N91-31530 *
US-PATENT-CLASS-455-115 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-117 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-137 ..... c 35 N82-15381 *
US-PATENT-CLASS-455-139 ..... c 35 N82-15381 *
US-PATENT-CLASS-455-1 ..... c 33 N91-31530 *
US-PATENT-CLASS-455-202 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-202 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-208 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-208 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-234 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-260 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-265 ..... c 32 N84-27952 *
US-PATENT-CLASS-455-278 ..... c 32 N81-29308 *
US-PATENT-CLASS-455-306 ..... c 33 N82-29539 *
US-PATENT-CLASS-455-51 ..... c 32 N81-14186 *
US-PATENT-CLASS-455-605 ..... c 74 N91-27957 *
US-PATENT-CLASS-455-608 ..... c 32 N87-21207 *
US-PATENT-CLASS-455-60 ..... c 35 N82-15381 *
US-PATENT-CLASS-455-610 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-612 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-612 ..... c 74 N83-29032 *
US-PATENT-CLASS-455-615 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-617 ..... c 74 N82-19029 *
US-PATENT-CLASS-455-619 ..... c 32 N81-14186 *
US-PATENT-CLASS-455-65 ..... c 32 N87-25511 *
US-PATENT-CLASS-455-67 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-71 ..... c 32 N81-14186 *
US-PATENT-CLASS-455-73 ..... c 32 N85-29118 *
US-PATENT-CLASS-455-98 ..... c 32 N89-14374 *
US-PATENT-CLASS-455-99 ..... c 33 N91-31530 *
US-PATENT-CLASS-464-132 ..... c 37 N91-17387 *
US-PATENT-CLASS-464-56 ..... c 37 N91-17387 *
US-PATENT-CLASS-464-56 ..... c 37 N91-17388 *
US-PATENT-CLASS-467-28 ..... c 39 N80-10507 *
US-PATENT-CLASS-47-1.2 ..... c 51 N75-25503 *

US-PATENT-CLASS-47-1.4 ..... c 31 N73-32750 *
US-PATENT-CLASS-47-1.4 ..... c 54 N91-31803 * #
US-PATENT-CLASS-47-17 ..... c 31 N73-32750 *
US-PATENT-CLASS-47-26 ..... c 37 N83-26078 *
US-PATENT-CLASS-47-39 ..... c 51 N75-25503 *
US-PATENT-CLASS-47-58 ..... c 51 N75-25503 *
US-PATENT-CLASS-47-58 ..... c 51 N83-17045 *
US-PATENT-CLASS-47-58 ..... c 45 N84-12654 *
US-PATENT-CLASS-47-62 ..... c 54 N91-31803 * #
US-PATENT-CLASS-474-205 ..... c 37 N80-32717 *
US-PATENT-CLASS-474-220 ..... c 37 N87-17034 *
US-PATENT-CLASS-48-DIG.8 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-10-3 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-102A ..... c 28 N80-10374 *
US-PATENT-CLASS-48-107 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-116 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-116 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-117 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-117 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-117 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-197-R ..... c 25 N86-25428 *
US-PATENT-CLASS-48-197R ..... c 44 N76-29704 *
US-PATENT-CLASS-48-197R ..... c 44 N77-10636 *
US-PATENT-CLASS-48-197R ..... c 28 N91-14495 *
US-PATENT-CLASS-48-203 ..... c 28 N91-14495 *
US-PATENT-CLASS-48-212 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-215 ..... c 44 N76-29700 *
US-PATENT-CLASS-48-61 ..... c 44 N77-10636 *
US-PATENT-CLASS-48-61 ..... c 28 N80-10374 *
US-PATENT-CLASS-48-63 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-75 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-77 ..... c 28 N91-14495 *
US-PATENT-CLASS-48-89 ..... c 44 N82-16475 *
US-PATENT-CLASS-48-95 ..... c 44 N76-18642 *
US-PATENT-CLASS-48-95 ..... c 44 N76-29700 *
US-PATENT-CLASS-48-99 ..... c 44 N82-16475 *
US-PATENT-CLASS-49-DIG.1 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-171 ..... c 31 N81-19343 *
US-PATENT-CLASS-49-253 ..... c 18 N90-19278 *
US-PATENT-CLASS-49-479 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-485 ..... c 34 N78-25350 *
US-PATENT-CLASS-49-68 ..... c 18 N74-22136 *
US-PATENT-CLASS-5-345 ..... c 05 N70-33285 *
US-PATENT-CLASS-5-459 ..... c 03 N84-33394 *
US-PATENT-CLASS-5-69 ..... c 05 N72-11085 *
US-PATENT-CLASS-5-81-R ..... c 85 N87-21755 *
US-PATENT-CLASS-5-82 ..... c 05 N71-23159 *
US-PATENT-CLASS-501-88 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-88 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-91 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-91 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-92 ..... c 27 N88-29040 *
US-PATENT-CLASS-501-92 ..... c 27 N90-21177 *
US-PATENT-CLASS-501-93 ..... c 27 N88-29040 *
US-PATENT-CLASS-502-217 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-218 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-226 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-239 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-241 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-245 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-324 ..... c 25 N90-23517 *
US-PATENT-CLASS-502-324 ..... c 25 N91-21270 *
US-PATENT-CLASS-502-325 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-339 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-339 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-344 ..... c 25 N90-20180 *
US-PATENT-CLASS-502-34 ..... c 25 N91-21270 *
US-PATENT-CLASS-502-352 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-38 ..... c 25 N90-20154 *
US-PATENT-CLASS-502-53 ..... c 25 N90-20154 *
US-PATENT-CLASS-505-1 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-701 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-702 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-703 ..... c 33 N91-31529 *
US-PATENT-CLASS-505-704 ..... c 33 N91-31529 *
US-PATENT-CLASS-51-170 ..... c 15 N71-26134 *
US-PATENT-CLASS-51-216 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-225 ..... c 37 N74-27905 *
US-PATENT-CLASS-51-234 ..... c 37 N74-27905 *
US-PATENT-CLASS-51-235 ..... c 37 N78-17383 *
US-PATENT-CLASS-51-235 ..... c 76 N80-18951 *
US-PATENT-CLASS-51-277 ..... c 74 N80-24149 *
US-PATENT-CLASS-51-281-R ..... c 31 N87-25491 *
US-PATENT-CLASS-51-283R ..... c 74 N80-24149 *
US-PATENT-CLASS-51-283 ..... c 46 N74-23069 *
US-PATENT-CLASS-51-320 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-323 ..... c 15 N72-20444 *
US-PATENT-CLASS-51-57 ..... c 15 N71-22705 *
US-PATENT-CLASS-51-73R ..... c 37 N85-21650 *
US-PATENT-CLASS-51-97R ..... c 37 N74-27905 *
US-PATENT-CLASS-52-DIG.10 .... c 18 N72-25540 *
US-PATENT-CLASS-52-DIG.10 .... c 18 N72-25541 *
US-PATENT-CLASS-52-108 ..... c 15 N72-18477 *
US-PATENT-CLASS-52-108 ..... c 31 N81-27323 *
US-PATENT-CLASS-52-108 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-109 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-110 ..... c 37 N86-25791 *
US-PATENT-CLASS-52-111 ..... c 31 N81-27324 *
US-PATENT-CLASS-52-111 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-111 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-117 ..... c 44 N77-32582 *
US-PATENT-CLASS-52-126.5 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-127.7 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-127 ..... c 15 N71-21531 *
US-PATENT-CLASS-52-144 ..... c 71 N91-27913 *
US-PATENT-CLASS-52-169 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-171 ..... c 11 N73-12265 *
US-PATENT-CLASS-52-171 ..... c 74 N85-29750 *
US-PATENT-CLASS-52-173R ..... c 44 N77-31601 *
US-PATENT-CLASS-52-173 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-1 ..... c 15 N72-28496 *
US-PATENT-CLASS-52-232 ..... c 37 N81-14317 *
US-PATENT-CLASS-52-236 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-249 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-272 ..... c 31 N71-24035 *
US-PATENT-CLASS-52-284 ..... c 32 N73-13921 *
US-PATENT-CLASS-52-2 ..... c 32 N71-21045 *
US-PATENT-CLASS-52-2 ..... c 44 N77-32583 *
US-PATENT-CLASS-52-309.15 .... c 31 N87-16918 *
US-PATENT-CLASS-52-309.1 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-391 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-3 ..... c 31 N71-16080 *
US-PATENT-CLASS-52-404 ..... c 33 N71-25351 *
US-PATENT-CLASS-52-404 ..... c 16 N84-22601 *
US-PATENT-CLASS-52-506 ..... c 16 N84-22601 *
US-PATENT-CLASS-52-506 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-511 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-51 ..... c 44 N77-31601 *
US-PATENT-CLASS-52-573 ..... c 15 N72-28496 *
US-PATENT-CLASS-52-573 ..... c 18 N89-28554 *
US-PATENT-CLASS-52-594 ..... c 15 N72-25454 *
US-PATENT-CLASS-52-594 ..... c 32 N73-13921 *
US-PATENT-CLASS-52-632 ..... c 31 N81-27324 *
US-PATENT-CLASS-52-632 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-632 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-632 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-637 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-637 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-645 ..... c 31 N81-25259 *
US-PATENT-CLASS-52-645 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-645 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-646 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-646 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-646 ..... c 37 N86-32737 *
US-PATENT-CLASS-52-646 ..... c 31 N87-25492 *
US-PATENT-CLASS-52-646 ..... c 18 N88-28958 *
US-PATENT-CLASS-52-646 ..... c 37 N88-29180 *
US-PATENT-CLASS-52-646 ..... c 18 N91-21221 *
US-PATENT-CLASS-52-646 ..... c 18 N91-27199 *
US-PATENT-CLASS-52-648 ..... c 11 N72-25287 *
US-PATENT-CLASS-52-648 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-648 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-648 ..... c 31 N86-19479 *
US-PATENT-CLASS-52-648 ..... c 37 N86-25789 *
US-PATENT-CLASS-52-648 ..... c 18 N88-28958 *
US-PATENT-CLASS-52-648 ..... c 37 N88-29180 *
US-PATENT-CLASS-52-648 ..... c 18 N89-28554 *
US-PATENT-CLASS-52-64 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-651 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-655 ..... c 11 N72-25287 *
US-PATENT-CLASS-52-705 ..... c 37 N76-19437 *
US-PATENT-CLASS-52-71 ..... c 18 N75-27040 *
US-PATENT-CLASS-52-726 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-726 ..... c 31 N81-25258 *
US-PATENT-CLASS-52-743 ..... c 37 N81-14317 *
US-PATENT-CLASS-52-745 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-745 ..... c 31 N81-27323 *
US-PATENT-CLASS-52-745 ..... c 37 N85-30335 *
US-PATENT-CLASS-52-749 ..... c 39 N76-31562 *
US-PATENT-CLASS-52-758F ..... c 37 N76-19437 *
US-PATENT-CLASS-52-806 ..... c 24 N84-11214 *
US-PATENT-CLASS-52-808 ..... c 24 N84-11214 *
US-PATENT-CLASS-52-80 ..... c 18 N72-25540 *
US-PATENT-CLASS-52-80 ..... c 18 N72-25541 *
US-PATENT-CLASS-52-80 ..... c 31 N73-32749 *
US-PATENT-CLASS-52-814 ..... c 18 N84-33450 *
US-PATENT-CLASS-52-814 ..... c 31 N87-16918 *
US-PATENT-CLASS-52-814 ..... c 31 N89-12786 *
US-PATENT-CLASS-52-81 ..... c 37 N82-32732 *
US-PATENT-CLASS-52-821 ..... c 31 N89-12786 *
US-PATENT-CLASS-521-124 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-125 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-127 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-141 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-142 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-145 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-146 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-149 ..... c 51 N84-28361 *
US-PATENT-CLASS-521-157 ..... c 25 N80-16116 *
US-PATENT-CLASS-521-178 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-189 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-27 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-32 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-55 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-62 ..... c 27 N81-14076 *
US-PATENT-CLASS-521-82 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-918 ..... c 25 N80-23383 *
US-PATENT-CLASS-521-97 ..... c 27 N90-16949 *
US-PATENT-CLASS-521-98 ..... c 27 N90-16949 *
US-PATENT-CLASS-522-162 ..... c 27 N90-21198 *
US-PATENT-CLASS-522-165 ..... c 27 N90-21198 *
US-PATENT-CLASS-523-135 ..... c 27 N85-29044 *
US-PATENT-CLASS-523-205 ..... c 27 N83-19900 *
US-PATENT-CLASS-523-433 ..... c 24 N86-19380 *
US-PATENT-CLASS-523-434 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-435 ..... c 24 N84-11213 *
US-PATENT-CLASS-523-440 ..... c 27 N83-34043 *
US-PATENT-CLASS-523-443 ..... c 27 N83-34043 *
US-PATENT-CLASS-523-445 ..... c 24 N86-19380 *
US-PATENT-CLASS-523-445 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-454 ..... c 24 N84-34571 *
US-PATENT-CLASS-523-454 ..... c 27 N85-34282 *
US-PATENT-CLASS-523-456 ..... c 24 N84-11213 *
US-PATENT-CLASS-523-458 ..... c 24 N84-34571 *
US-PATENT-CLASS-523-458 ..... c 27 N85-34282 *
US-PATENT-CLASS-523-461 ..... c 27 N86-27451 *
US-PATENT-CLASS-523-66468 ... c 24 N86-19380 *
US-PATENT-CLASS-524-104 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-171 ..... c 27 N84-22747 *
US-PATENT-CLASS-524-173 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-233 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-233 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-366 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-371 ..... c 27 N84-14324 *
US-PATENT-CLASS-524-378 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-388 ..... c 27 N85-29044 *
US-PATENT-CLASS-524-404 ..... c 27 N87-22845 *
US-PATENT-CLASS-524-436 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-437 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-494 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-496 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-500 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-503 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-530 ..... c 27 N84-14322 *
US-PATENT-CLASS-524-548 ..... c 27 N86-20560 *
US-PATENT-CLASS-524-548 ..... c 27 N87-22845 *
US-PATENT-CLASS-524-564 ..... c 27 N83-19900 *
US-PATENT-CLASS-524-567 ..... c 27 N85-29044 *
US-PATENT-CLASS-524-600 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-600 ..... c 27 N91-15402 *
US-PATENT-CLASS-524-607 ..... c 27 N90-16950 *
US-PATENT-CLASS-524-726 ..... c 27 N83-28240 *
US-PATENT-CLASS-524-786 ..... c 27 N83-19900 *
US-PATENT-CLASS-525-107 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-108 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-113 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-115 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-119 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-119 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-122 ..... c 27 N86-27451 *
US-PATENT-CLASS-525-181 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-181 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-182 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-182 ..... c 27 N87-22845 *
US-PATENT-CLASS-525-183 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-183 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-184 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-184 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-186 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-186 ..... c 27 N86-20560 *
US-PATENT-CLASS-525-229 ..... c 27 N85-34281 *
US-PATENT-CLASS-525-26 ..... c 27 N85-29043 *
US-PATENT-CLASS-525-282 ..... c 27 N84-14322 *
US-PATENT-CLASS-525-282 ..... c 27 N87-15304 *
US-PATENT-CLASS-525-287 ..... c 27 N84-14322 *
US-PATENT-CLASS-525-326 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-336 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-340 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-36 ..... c 27 N87-22848 *
US-PATENT-CLASS-525-374 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-375 ..... c 27 N80-24438 *
US-PATENT-CLASS-525-384 ..... c 28 N81-15119 *
US-PATENT-CLASS-525-389 ..... c 27 N84-22750 *
US-PATENT-CLASS-525-397 ..... c 27 N88-18725 *
US-PATENT-CLASS-525-417 ..... c 27 N84-22745 *
US-PATENT-CLASS-525-420 ..... c 27 N85-20123 *
US-PATENT-CLASS-525-422 ..... c 27 N91-31307 *
US-PATENT-CLASS-525-423 ..... c 24 N86-19380 *
US-PATENT-CLASS-525-425 ..... c 33 N88-23941 *
US-PATENT-CLASS-525-426 ..... c 27 N80-26446 *
US-PATENT-CLASS-525-426 ..... c 27 N84-22746 *
US-PATENT-CLASS-525-426 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-432 ..... c 27 N86-19456 *
US-PATENT-CLASS-525-432 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-432 ..... c 24 N91-25200 *
US-PATENT-CLASS-525-436 ..... c 27 N86-19456 *
US-PATENT-CLASS-525-436 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-436 ..... c 27 N91-15402 *

US-PATENT-CLASS-525-471 ..... c 27 N91-31307 *
US-PATENT-CLASS-525-474 ..... c 27 N83-28240 *
US-PATENT-CLASS-525-474 ..... c 27 N85-21349 *
US-PATENT-CLASS-525-47 ..... c 27 N85-29043 *
US-PATENT-CLASS-525-484 ..... c 24 N84-34571 *
US-PATENT-CLASS-525-4 ..... c 25 N80-23383 *
US-PATENT-CLASS-525-527 ..... c 24 N86-19380 *
US-PATENT-CLASS-525-532 ..... c 23 N85-28973 *
US-PATENT-CLASS-525-534 ..... c 27 N84-22747 *
US-PATENT-CLASS-525-534 ..... c 23 N85-28973 *
US-PATENT-CLASS-525-534 ..... c 27 N86-27450 *
US-PATENT-CLASS-525-535 ..... c 27 N84-22747 *
US-PATENT-CLASS-525-535 ..... c 27 N86-27450 *
US-PATENT-CLASS-525-536 ..... c 27 N84-22747 *
US-PATENT-CLASS-525-56 ..... c 23 N81-29160 *
US-PATENT-CLASS-525-61 ..... c 27 N81-24257 *
US-PATENT-CLASS-525-61 ..... c 23 N81-29160 *
US-PATENT-CLASS-525-61 ..... c 25 N83-13188 *
US-PATENT-CLASS-525-903 ..... c 27 N87-28657 *
US-PATENT-CLASS-525-905 ..... c 27 N88-18725 *
US-PATENT-CLASS-526-13 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-193 ..... c 27 N78-15276 *
US-PATENT-CLASS-526-1 ..... c 27 N76-24405 *
US-PATENT-CLASS-526-201 ..... c 25 N81-19242 *
US-PATENT-CLASS-526-204 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-217 ..... c 27 N85-21350 *
US-PATENT-CLASS-526-217 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-225 ..... c 27 N78-15276 *
US-PATENT-CLASS-526-23 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-255 ..... c 27 N76-24405 *
US-PATENT-CLASS-526-259 ..... c 27 N83-34040 *
US-PATENT-CLASS-526-261 ..... c 27 N80-24438 *
US-PATENT-CLASS-526-262 ..... c 27 N81-27272 *
US-PATENT-CLASS-526-262 ..... c 27 N84-22745 *
US-PATENT-CLASS-526-262 ..... c 27 N84-27885 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21347 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21350 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21351 *
US-PATENT-CLASS-526-262 ..... c 27 N85-21352 *
US-PATENT-CLASS-526-262 ..... c 25 N85-28982 *
US-PATENT-CLASS-526-262 ..... c 25 N85-30039 *
US-PATENT-CLASS-526-262 ..... c 27 N86-20560 *
US-PATENT-CLASS-526-262 ..... c 24 N86-21590 *
US-PATENT-CLASS-526-262 ..... c 27 N87-22845 *
US-PATENT-CLASS-526-262 ..... c 23 N90-21118 *
US-PATENT-CLASS-526-262 ..... c 23 N91-14418 *
US-PATENT-CLASS-526-265 ..... c 27 N86-20560 *
US-PATENT-CLASS-526-265 ..... c 24 N86-28131 *
US-PATENT-CLASS-526-274 ..... c 27 N85-21347 *
US-PATENT-CLASS-526-275 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-275 ..... c 27 N80-24438 *
US-PATENT-CLASS-526-276 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-276 ..... c 27 N80-24438 *
US-PATENT-CLASS-526-278 ..... c 27 N78-32256 *
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US-PATENT-CLASS-526-27 ..... c 27 N78-32256 *
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US-PATENT-CLASS-526-285 ..... c 27 N86-27450 *
US-PATENT-CLASS-526-328 ..... c 27 N85-29043 *
US-PATENT-CLASS-526-329.2 .... c 27 N85-29043 *
US-PATENT-CLASS-526-49 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-50 ..... c 27 N78-32256 *
US-PATENT-CLASS-526-60 ..... c 27 N90-23544 *
US-PATENT-CLASS-526-7 ..... c 44 N79-25481 *
US-PATENT-CLASS-526-88 ..... c 25 N81-19242 *
US-PATENT-CLASS-526-914 ..... c 28 N81-15119 *
US-PATENT-CLASS-526-9 ..... c 44 N79-25481 *
US-PATENT-CLASS-528-102 ..... c 24 N86-19380 *
US-PATENT-CLASS-528-103 ..... c 24 N86-19380 *
US-PATENT-CLASS-528-106 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-108 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-108 ..... c 27 N87-25469 *
US-PATENT-CLASS-528-10 ..... c 27 N88-29040 *
US-PATENT-CLASS-528-10 ..... c 27 N90-21177 *
US-PATENT-CLASS-528-110 ..... c 24 N84-11213 *
US-PATENT-CLASS-528-113 ..... c 27 N85-34281 *
US-PATENT-CLASS-528-117 ..... c 27 N85-34281 *
US-PATENT-CLASS-528-118 ..... c 27 N81-17260 *
US-PATENT-CLASS-528-124 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-125 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-125 ..... c 27 N84-22749 *
US-PATENT-CLASS-528-125 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-125 ..... c 27 N89-14337 *
US-PATENT-CLASS-528-125 ..... c 27 N90-16950 *
US-PATENT-CLASS-528-125 ..... c 27 N90-23545 *
US-PATENT-CLASS-528-125 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-125 ..... c 27 N91-15403 *
US-PATENT-CLASS-528-125 ..... c 23 N91-27220 *
US-PATENT-CLASS-528-126 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-126 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-126 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-126 ..... c 27 N85-21348 *
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US-PATENT-CLASS-528-128 ..... c 27 N79-28307 *
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US-PATENT-CLASS-528-128 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-128 ..... c 23 N91-27220 *
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US-PATENT-CLASS-528-167 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-168 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-168 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-168 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-168 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-168 ..... c 27 N87-16909 *
US-PATENT-CLASS-528-168 ..... c 27 N87-25469 *
US-PATENT-CLASS-528-170 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-170 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-170 ..... c 27 N86-31726 * #
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US-PATENT-CLASS-528-171 ..... c 27 N86-27450 *
US-PATENT-CLASS-528-172 ..... c 27 N82-11206 *
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US-PATENT-CLASS-528-183 ..... c 27 N86-29039 *
US-PATENT-CLASS-528-184 ..... c 27 N87-22848 *
US-PATENT-CLASS-528-185 ..... c 27 N84-22749 *
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US-PATENT-CLASS-528-187 ..... c 27 N85-21348 *
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US-PATENT-CLASS-528-188 ..... c 27 N90-23546 *
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US-PATENT-CLASS-528-210 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-211 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-212 ..... c 27 N90-23545 *
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US-PATENT-CLASS-528-220 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-220 ..... c 27 N86-31726 * #
US-PATENT-CLASS-528-220 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-220 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-220 ..... c 23 N91-27220 *
US-PATENT-CLASS-528-220 ..... c 27 N91-27372 *
US-PATENT-CLASS-528-221 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-222 ..... c 27 N81-29229 *
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US-PATENT-CLASS-528-222 ..... c 27 N91-27372 *
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US-PATENT-CLASS-528-225 ..... c 27 N91-27372 *
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US-PATENT-CLASS-528-226 ..... c 27 N85-21348 *
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US-PATENT-CLASS-528-227 ..... c 27 N91-27372 *
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US-PATENT-CLASS-528-233 ..... c 27 N91-27372 *
US-PATENT-CLASS-528-239 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-241 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-258 ..... c 27 N85-20124 *
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US-PATENT-CLASS-528-26 ..... c 27 N87-14516 *
US-PATENT-CLASS-528-271 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-279 ..... c 27 N85-20124 *
US-PATENT-CLASS-528-288 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-289 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-303 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-304 ..... c 27 N85-29043 *
US-PATENT-CLASS-528-308 ..... c 27 N90-21198 *
US-PATENT-CLASS-528-30 ..... c 27 N88-29040 *
US-PATENT-CLASS-528-30 ..... c 27 N90-21177 *
US-PATENT-CLASS-528-310 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-310 ..... c 27 N81-24256 *
US-PATENT-CLASS-528-310 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-310 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-310 ..... c 23 N86-19376 *
US-PATENT-CLASS-528-314 ..... c 25 N85-30039 *
US-PATENT-CLASS-528-315 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-321 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-321 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-321 ..... c 27 N86-31726 * #
US-PATENT-CLASS-528-321 ..... c 27 N87-16909 *
US-PATENT-CLASS-528-321 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-322 ..... c 27 N81-17260 *
US-PATENT-CLASS-528-322 ..... c 27 N84-22745 *
US-PATENT-CLASS-528-322 ..... c 27 N84-27885 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21347 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21351 *
US-PATENT-CLASS-528-322 ..... c 27 N85-21352 *
US-PATENT-CLASS-528-322 ..... c 25 N85-28982 *
US-PATENT-CLASS-528-322 ..... c 25 N85-30039 *
US-PATENT-CLASS-528-322 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-322 ..... c 24 N86-25416 *
US-PATENT-CLASS-528-322 ..... c 27 N86-31726 * #
US-PATENT-CLASS-528-322 ..... c 27 N87-16909 *
US-PATENT-CLASS-528-322 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-322 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-322 ..... c 23 N90-21118 *
US-PATENT-CLASS-528-322 ..... c 23 N91-14418 *
US-PATENT-CLASS-528-327 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-327 ..... c 27 N86-19455 *
US-PATENT-CLASS-528-327 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-328 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-331 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-331 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-331 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-336 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-336 ..... c 27 N85-20123 *
US-PATENT-CLASS-528-336 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-336 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-337 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-337 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-337 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-338 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-340 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-341 ..... c 27 N86-29039 *
US-PATENT-CLASS-528-342 ..... c 27 N79-28307 *
US-PATENT-CLASS-528-342 ..... c 27 N84-27885 *
US-PATENT-CLASS-528-342 ..... c 27 N85-21350 *
US-PATENT-CLASS-528-342 ..... c 27 N85-21351 *
US-PATENT-CLASS-528-342 ..... c 27 N85-21352 *
US-PATENT-CLASS-528-342 ..... c 25 N85-28982 *
US-PATENT-CLASS-528-342 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-345 ..... c 27 N84-22746 *
US-PATENT-CLASS-528-345 ..... c 27 N85-20123 *
US-PATENT-CLASS-528-345 ..... c 27 N86-19457 *
US-PATENT-CLASS-528-347 ..... c 27 N86-32568 * #
US-PATENT-CLASS-528-348 ..... c 27 N84-22746 *
US-PATENT-CLASS-528-350 ..... c 24 N91-25200 *
US-PATENT-CLASS-528-351 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-352 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-352 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-352 ..... c 27 N86-19456 *
US-PATENT-CLASS-528-352 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-352 ..... c 23 N90-19300 *
US-PATENT-CLASS-528-352 ..... c 24 N91-25200 *
US-PATENT-CLASS-528-353 ..... c 27 N81-19296 *
US-PATENT-CLASS-528-353 ..... c 27 N82-11206 *
US-PATENT-CLASS-528-353 ..... c 27 N85-21348 *
US-PATENT-CLASS-528-353 ..... c 27 N85-34280 *
US-PATENT-CLASS-528-353 ..... c 27 N86-19456 *

US-PATENT-CLASS-528-353 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-353 ..... c 27 N90-16950 *
US-PATENT-CLASS-528-353 ..... c 23 N90-19300 *
US-PATENT-CLASS-528-353 ..... c 27 N90-23546 *
US-PATENT-CLASS-528-353 ..... c 27 N91-15402 *
US-PATENT-CLASS-528-353 ..... c 27 N91-15403 *
US-PATENT-CLASS-528-361 ..... c 24 N84-11213 *
US-PATENT-CLASS-528-362 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-362 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-362 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-362 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-362 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-362 ..... c 27 N84-27884 *
US-PATENT-CLASS-528-362 ..... c 27 N87-21112 *
US-PATENT-CLASS-528-38 ..... c 27 N83-34040 *
US-PATENT-CLASS-528-394 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-399 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-399 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-399 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-399 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-401 ..... c 27 N79-22300 *
US-PATENT-CLASS-528-401 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-401 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-401 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-401 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-401 ..... c 23 N82-28353 *
US-PATENT-CLASS-528-401 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-402 ..... c 25 N82-24312 *
US-PATENT-CLASS-528-406 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-407 ..... c 24 N84-34571 *
US-PATENT-CLASS-528-407 ..... c 27 N85-34281 *
US-PATENT-CLASS-528-407 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-407 ..... c 23 N86-32525 *
US-PATENT-CLASS-528-413 ..... c 27 N87-24564 *
US-PATENT-CLASS-528-422 ..... c 27 N79-22300 *
US-PATENT-CLASS-528-422 ..... c 25 N81-14016 *
US-PATENT-CLASS-528-422 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-422 ..... c 27 N81-17262 *
US-PATENT-CLASS-528-422 ..... c 27 N82-24338 *
US-PATENT-CLASS-528-422 ..... c 23 N82-28353 *
US-PATENT-CLASS-528-422 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-423 ..... c 27 N81-17259 *
US-PATENT-CLASS-528-423 ..... c 27 N84-22744 *
US-PATENT-CLASS-528-481 ..... c 27 N80-24438 *
US-PATENT-CLASS-528-4 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-4 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-4 ..... c 27 N88-29040 *
US-PATENT-CLASS-528-4 ..... c 27 N90-21177 *
US-PATENT-CLASS-528-6 ..... c 27 N81-27271 *
US-PATENT-CLASS-528-6 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-6 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-72 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-73 ..... c 25 N80-16116 *
US-PATENT-CLASS-528-73 ..... c 27 N89-16042 *
US-PATENT-CLASS-528-7 ..... c 27 N82-18389 *
US-PATENT-CLASS-528-7 ..... c 27 N84-22750 *
US-PATENT-CLASS-528-86 ..... c 23 N85-28973 *
US-PATENT-CLASS-528-92 ..... c 24 N84-34571 *
US-PATENT-CLASS-528-92 ..... c 27 N85-34282 *
US-PATENT-CLASS-528-94 ..... c 27 N85-34281 *
US-PATENT-CLASS-53-102 ..... c 15 N71-21528 *
US-PATENT-CLASS-53-112A ..... c 15 N73-27405 *
US-PATENT-CLASS-53-22A ..... c 15 N73-27405 *
US-PATENT-CLASS-53-22 ..... c 15 N71-23256 *
US-PATENT-CLASS-53-429 ..... c 09 N82-29330 *
US-PATENT-CLASS-53-9 ..... c 37 N77-23482 *
US-PATENT-CLASS-530-362 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-363 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-364 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-387 ..... c 52 N90-20616 *
US-PATENT-CLASS-530-422 ..... c 52 N90-20616 *
US-PATENT-CLASS-536-105 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-536-85 . c 27 N77-30236 *
US-PATENT-CLASS-536-56 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-58 ..... c 27 N77-30236 *
US-PATENT-CLASS-536-84 ..... c 27 N77-30236 *
US-PATENT-CLASS-538-117 ..... c 27 N81-17260 *
US-PATENT-CLASS-544-193 ..... c 27 N78-15276 *
US-PATENT-CLASS-544-193 ..... c 27 N79-28307 *
US-PATENT-CLASS-544-195 ..... c 27 N78-32256 *
US-PATENT-CLASS-544-215 ..... c 27 N84-22744 *
US-PATENT-CLASS-546-262 ..... c 27 N87-22847 *
US-PATENT-CLASS-546-264 ..... c 27 N87-22847 *
US-PATENT-CLASS-546-339 ..... c 27 N87-16908 *
US-PATENT-CLASS-546-346 ..... c 27 N87-16908 *
US-PATENT-CLASS-546-350 ..... c 27 N87-16908 *
US-PATENT-CLASS-547-131 ..... c 23 N82-28353 *
US-PATENT-CLASS-548-400 ..... c 23 N90-21118 *
US-PATENT-CLASS-548-413 ..... c 27 N83-31854 *
US-PATENT-CLASS-548-413 ..... c 23 N86-19376 *
US-PATENT-CLASS-548-413 ..... c 27 N87-23751 *
US-PATENT-CLASS-548-415 ..... c 27 N83-31854 *
US-PATENT-CLASS-548-415 ..... c 27 N84-22745 *
US-PATENT-CLASS-548-520 ..... c 27 N90-23545 *
US-PATENT-CLASS-548-524 ..... c 23 N90-21118 *
US-PATENT-CLASS-548-549 ..... c 23 N91-14419 *

US-PATENT-CLASS-549-241 ..... c 23 N88-26404 *
US-PATENT-CLASS-549-241 ..... c 25 N90-23497 *
US-PATENT-CLASS-549-335 ..... c 23 N85-33187 *
US-PATENT-CLASS-55-DIG.25 .... c 35 N84-17555 *
US-PATENT-CLASS-55-DIG.30 .... c 35 N84-17555 *
US-PATENT-CLASS-55-DIG.35 .... c 54 N75-27761 *
US-PATENT-CLASS-55-DIG.42 .... c 37 N85-29283 *
US-PATENT-CLASS-55-100 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-100 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-101 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-105 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-105 ..... c 33 N90-20320 *
US-PATENT-CLASS-55-118 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-122 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-126 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-127 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-12 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-131 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-138 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-139 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-139 ..... c 33 N90-20320 *
US-PATENT-CLASS-55-145 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-15-8 ..... c 52 N79-14749 *
US-PATENT-CLASS-55-155 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-158 ..... c 18 N71-20742 *
US-PATENT-CLASS-55-158 ..... c 44 N77-22607 *
US-PATENT-CLASS-55-158 ..... c 25 N82-21269 *
US-PATENT-CLASS-55-159 ..... c 34 N74-30608 *
US-PATENT-CLASS-55-159 ..... c 37 N79-21345 *
US-PATENT-CLASS-55-159 ..... c 31 N90-20254 *
US-PATENT-CLASS-55-15 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-15 ..... c 71 N85-22104 *
US-PATENT-CLASS-55-160 ..... c 15 N71-15968 *
US-PATENT-CLASS-55-160 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-160 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-16 ..... c 06 N72-31140 *
US-PATENT-CLASS-55-179 ..... c 14 N71-17588 *
US-PATENT-CLASS-55-179 ..... c 54 N77-32722 *
US-PATENT-CLASS-55-182 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-194 ..... c 35 N83-29652 *
US-PATENT-CLASS-55-197 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-199 ..... c 34 N74-30608 *
US-PATENT-CLASS-55-202 ..... c 35 N83-29652 *
US-PATENT-CLASS-55-203 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-204 ..... c 15 N71-23023 *
US-PATENT-CLASS-55-204 ..... c 44 N83-10501 *
US-PATENT-CLASS-55-204 ..... c 35 N90-22024 *
US-PATENT-CLASS-55-205 ..... c 29 N90-20236 *
US-PATENT-CLASS-55-208 ..... c 14 N71-18483 *
US-PATENT-CLASS-55-228 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-241 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-242 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-242 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-255 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-259 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-26-9 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-261 ..... c 35 N76-18401 *
US-PATENT-CLASS-55-269 ..... c 54 N77-32722 *
US-PATENT-CLASS-55-270 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-277 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-277 ..... c 71 N85-22104 *
US-PATENT-CLASS-55-283 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-291 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-2 ..... c 25 N78-25148 *
US-PATENT-CLASS-55-2 ..... c 28 N81-14103 *
US-PATENT-CLASS-55-2 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-306 ..... c 28 N70-34788 *
US-PATENT-CLASS-55-35 ..... c 05 N70-41297 *
US-PATENT-CLASS-55-360 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-386 ..... c 35 N75-26334 *
US-PATENT-CLASS-55-38 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-3 ..... c 35 N78-12390 *
US-PATENT-CLASS-55-400 ..... c 11 N71-10777 *
US-PATENT-CLASS-55-407 ..... c 35 N79-17192 *
US-PATENT-CLASS-55-408 ..... c 15 N70-40062 *
US-PATENT-CLASS-55-418 ..... c 15 N71-22721 *
US-PATENT-CLASS-55-43 ..... c 34 N74-30608 *
US-PATENT-CLASS-55-446 ..... c 15 N72-22489 *
US-PATENT-CLASS-55-464 ..... c 15 N72-22489 *
US-PATENT-CLASS-55-466 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-46 ..... c 31 N90-20254 *
US-PATENT-CLASS-55-493 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-498 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-502 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-510 ..... c 25 N74-12813 *
US-PATENT-CLASS-55-518 ..... c 25 N74-12813 *
US-PATENT-CLASS-55-521 ..... c 14 N72-23457 *
US-PATENT-CLASS-55-521 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-523 ..... c 34 N76-27515 *
US-PATENT-CLASS-55-526 ..... c 34 N76-27515 *
US-PATENT-CLASS-55-528 ..... c 35 N86-29174 *
US-PATENT-CLASS-55-52 ..... c 71 N83-35781 *
US-PATENT-CLASS-55-55 ..... c 06 N72-31140 *
US-PATENT-CLASS-55-66 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-67 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-67 ..... c 25 N80-23383 *

US-PATENT-CLASS-55-68 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-68 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-6 ..... c 35 N84-17555 *
US-PATENT-CLASS-55-72 ..... c 25 N80-23383 *
US-PATENT-CLASS-55-73 ..... c 45 N79-12584 *
US-PATENT-CLASS-55-74 ..... c 23 N77-17161 *
US-PATENT-CLASS-55-74 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-75 ..... c 15 N71-26185 *
US-PATENT-CLASS-55-75 ..... c 54 N91-31803 * #
US-PATENT-CLASS-55-84 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-89 ..... c 45 N91-14662 *
US-PATENT-CLASS-55-96 ..... c 35 N84-17555 *
US-PATENT-CLASS-552-101 ..... c 23 N91-17141 *
US-PATENT-CLASS-552-101 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-108 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-110 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-113 ..... c 23 N91-25185 *
US-PATENT-CLASS-552-115 ..... c 23 N91-25185 *
US-PATENT-CLASS-556-402 ..... c 27 N90-21177 *
US-PATENT-CLASS-556-410 ..... c 25 N85-21280 *
US-PATENT-CLASS-556-436 ..... c 27 N86-21675 *
US-PATENT-CLASS-558-145 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-190 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-190 ..... c 23 N90-20133 *
US-PATENT-CLASS-558-193 ..... c 23 N87-28605 *
US-PATENT-CLASS-558-193 ..... c 23 N90-23475 *
US-PATENT-CLASS-558-80 ..... c 23 N88-24692 *
US-PATENT-CLASS-56-73 ..... c 74 N86-26190 *
US-PATENT-CLASS-560-104 ..... c 27 N87-16907 *
US-PATENT-CLASS-562-413 ..... c 25 N90-23497 *
US-PATENT-CLASS-562-415 ..... c 25 N90-23497 *
US-PATENT-CLASS-562-417 ..... c 25 N90-23497 *
US-PATENT-CLASS-564-113 ..... c 23 N86-19376 *
US-PATENT-CLASS-564-13 ..... c 23 N88-24692 *
US-PATENT-CLASS-564-15 ..... c 27 N86-32568 * #
US-PATENT-CLASS-564-229 ..... c 27 N81-24256 *
US-PATENT-CLASS-564-229 ..... c 23 N82-28353 *
US-PATENT-CLASS-564-243 ..... c 27 N84-22744 *
US-PATENT-CLASS-564-243 ..... c 23 N86-21582 *
US-PATENT-CLASS-564-315 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-323 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-330 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-330 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-342 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-344 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-396 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-396 ..... c 23 N89-12667 *
US-PATENT-CLASS-564-430 ..... c 27 N87-22847 *
US-PATENT-CLASS-564-430 ..... c 23 N89-12667 *
US-PATENT-CLASS-568-14 ..... c 27 N86-32568 * #
US-PATENT-CLASS-568-2 ..... c 27 N82-18389 *
US-PATENT-CLASS-568-445 ..... c 23 N82-16174 *
US-PATENT-CLASS-568-497 ..... c 23 N82-16174 *
US-PATENT-CLASS-568-4 ..... c 27 N82-18389 *
US-PATENT-CLASS-568-4 ..... c 27 N84-22750 *
US-PATENT-CLASS-568-5 ..... c 27 N82-18389 *
US-PATENT-CLASS-568-5 ..... c 27 N84-22750 *
US-PATENT-CLASS-568-852 ..... c 27 N80-32514 *
US-PATENT-CLASS-568-861 ..... c 27 N80-32514 *
US-PATENT-CLASS-57-906 ..... c 37 N82-18601 *
US-PATENT-CLASS-570-123 ..... c 25 N82-24312 *
US-PATENT-CLASS-570-129 ..... c 25 N82-24312 *
US-PATENT-CLASS-58-24 ..... c 10 N71-26326 *
US-PATENT-CLASS-585-24 ..... c 27 N86-21675 *
US-PATENT-CLASS-60.39.08 ..... c 37 N79-11403 *
US-PATENT-CLASS-60-108 ..... c 33 N71-16104 *
US-PATENT-CLASS-60-1 ..... c 15 N72-33477 *
US-PATENT-CLASS-60-1 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-200A ..... c 33 N72-25911 *
US-PATENT-CLASS-60-200A ..... c 33 N73-25952 *
US-PATENT-CLASS-60-200A ..... c 27 N78-17206 *
US-PATENT-CLASS-60-200R ..... c 20 N82-18314 *
US-PATENT-CLASS-60-200 ..... c 28 N71-14044 *
US-PATENT-CLASS-60-202 ..... c 28 N70-41922 *
US-PATENT-CLASS-60-202 ..... c 28 N71-10574 *
US-PATENT-CLASS-60-202 ..... c 25 N71-21694 *
US-PATENT-CLASS-60-202 ..... c 28 N71-21822 *
US-PATENT-CLASS-60-202 ..... c 28 N71-23081 *
US-PATENT-CLASS-60-202 ..... c 28 N71-23293 *
US-PATENT-CLASS-60-202 ..... c 28 N71-25213 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26173 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26642 *
US-PATENT-CLASS-60-202 ..... c 28 N71-26781 *
US-PATENT-CLASS-60-202 ..... c 28 N72-11709 *
US-PATENT-CLASS-60-202 ..... c 28 N72-22770 *
US-PATENT-CLASS-60-202 ..... c 28 N72-22771 *
US-PATENT-CLASS-60-202 ..... c 28 N73-24783 *
US-PATENT-CLASS-60-202 ..... c 25 N73-25760 *
US-PATENT-CLASS-60-202 ..... c 28 N73-27699 *
US-PATENT-CLASS-60-202 ..... c 20 N77-10148 *
US-PATENT-CLASS-60-202 ..... c 20 N77-20162 *
US-PATENT-CLASS-60-202 ..... c 20 N85-21256 *
US-PATENT-CLASS-60-202 ..... c 20 N89-25279 *
US-PATENT-CLASS-60-203.1 ..... c 20 N86-26368 *
US-PATENT-CLASS-60-203.1 ..... c 20 N87-16875 *
US-PATENT-CLASS-60-203.1 ..... c 09 N88-28939 *

US-PATENT-CLASS-60-203 ..... c 20 N80-14188 *
US-PATENT-CLASS-60-204 ..... c 07 N78-17055 *
US-PATENT-CLASS-60-204 ..... c 07 N78-18067 *
US-PATENT-CLASS-60-204 ..... c 44 N81-24519 *
US-PATENT-CLASS-60-204 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-211 ..... c 28 N73-13773 *
US-PATENT-CLASS-60-214 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-215 ..... c 06 N73-30097 *
US-PATENT-CLASS-60-215 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-217 ..... c 12 N71-17631 *
US-PATENT-CLASS-60-225 ..... c 28 N71-10780 *
US-PATENT-CLASS-60-226A ..... c 07 N77-17059 *
US-PATENT-CLASS-60-226A ..... c 07 N79-14096 *
US-PATENT-CLASS-60-226A ..... c 07 N79-14097 *
US-PATENT-CLASS-60-226A ..... c 07 N82-26293 *
US-PATENT-CLASS-60-226R ..... c 07 N78-18066 *
US-PATENT-CLASS-60-226R ..... c 07 N77-14025 *
US-PATENT-CLASS-60-226R ..... c 07 N77-28118 *
US-PATENT-CLASS-60-226R ..... c 07 N78-17055 *
US-PATENT-CLASS-60-226R ..... c 07 N78-17056 *
US-PATENT-CLASS-60-226R ..... c 07 N78-25089 *
US-PATENT-CLASS-60-226R ..... c 07 N79-14096 *
US-PATENT-CLASS-60-226R ..... c 07 N81-19116 *
US-PATENT-CLASS-60-228 ..... c 07 N77-17059 *
US-PATENT-CLASS-60-230 ..... c 07 N78-27121 *
US-PATENT-CLASS-60-236 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-238 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-239 ..... c 07 N81-19116 *
US-PATENT-CLASS-60-23 ..... c 09 N71-26182 *
US-PATENT-CLASS-60-23 ..... c 15 N72-12409 *
US-PATENT-CLASS-60-23 ..... c 21 N72-31637 *
US-PATENT-CLASS-60-23 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-240 ..... c 28 N71-24736 *
US-PATENT-CLASS-60-240 ..... c 28 N73-13773 *
US-PATENT-CLASS-60-240 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-243 ..... c 33 N71-21507 *
US-PATENT-CLASS-60-243 ..... c 15 N71-27432 *
US-PATENT-CLASS-60-243 ..... c 28 N73-13773 *
US-PATENT-CLASS-60-243 ..... c 20 N79-21124 *
US-PATENT-CLASS-60-251 ..... c 28 N70-41311 *
US-PATENT-CLASS-60-251 ..... c 27 N71-21819 *
US-PATENT-CLASS-60-254 ..... c 28 N72-20758 *
US-PATENT-CLASS-60-254 ..... c 28 N73-24784 *
US-PATENT-CLASS-60-256 ..... c 28 N73-24784 *
US-PATENT-CLASS-60-257 ..... c 31 N70-41948 *
US-PATENT-CLASS-60-258 ..... c 15 N70-22192 * #
US-PATENT-CLASS-60-258 ..... c 28 N71-22983 *
US-PATENT-CLASS-60-258 ..... c 28 N71-28849 *
US-PATENT-CLASS-60-258 ..... c 28 N72-17843 *
US-PATENT-CLASS-60-258 ..... c 15 N72-25455 *
US-PATENT-CLASS-60-258 ..... c 20 N74-13502 *
US-PATENT-CLASS-60-258 ..... c 20 N87-14420 *
US-PATENT-CLASS-60-259 ..... c 28 N70-41275 *
US-PATENT-CLASS-60-259 ..... c 20 N74-13502 *
US-PATENT-CLASS-60-259 ..... c 34 N77-30399 *
US-PATENT-CLASS-60-259 ..... c 20 N80-14188 *
US-PATENT-CLASS-60-259 ..... c 05 N81-26114 *
US-PATENT-CLASS-60-259 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-25 ..... c 15 N73-24513 *
US-PATENT-CLASS-60-25 ..... c 37 N74-21060 *
US-PATENT-CLASS-60-260 ..... c 28 N70-41992 *
US-PATENT-CLASS-60-260 ..... c 28 N72-18766 *
US-PATENT-CLASS-60-260 ..... c 20 N90-19298 *
US-PATENT-CLASS-60-261 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-262 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-262 ..... c 07 N78-18067 *
US-PATENT-CLASS-60-262 ..... c 07 N83-33884 *
US-PATENT-CLASS-60-263 ..... c 28 N71-24321 *
US-PATENT-CLASS-60-263 ..... c 07 N77-28118 *
US-PATENT-CLASS-60-264 ..... c 07 N80-32392 *
US-PATENT-CLASS-60-264 ..... c 20 N89-25279 *
US-PATENT-CLASS-60-265 ..... c 28 N71-20942 *
US-PATENT-CLASS-60-265 ..... c 33 N72-25911 *
US-PATENT-CLASS-60-265 ..... c 33 N73-25952 *
US-PATENT-CLASS-60-265 ..... c 20 N76-14191 *
US-PATENT-CLASS-60-266 ..... c 33 N71-28852 *
US-PATENT-CLASS-60-266 ..... c 28 N72-23810 *
US-PATENT-CLASS-60-267 ..... c 33 N71-29053 *
US-PATENT-CLASS-60-267 ..... c 33 N72-25911 *
US-PATENT-CLASS-60-267 ..... c 33 N73-25952 *
US-PATENT-CLASS-60-267 ..... c 28 N73-32606 *
US-PATENT-CLASS-60-267 ..... c 20 N76-14191 *
US-PATENT-CLASS-60-267 ..... c 34 N79-13288 *
US-PATENT-CLASS-60-267 ..... c 34 N79-13289 *
US-PATENT-CLASS-60-267 ..... c 34 N80-24573 *
US-PATENT-CLASS-60-267 ..... c 44 N81-24519 *
US-PATENT-CLASS-60-267 ..... c 05 N81-26114 *
US-PATENT-CLASS-60-269 ..... c 07 N83-33884 *
US-PATENT-CLASS-60-26 ..... c 21 N72-31637 *
US-PATENT-CLASS-60-26 ..... c 03 N73-20040 *
US-PATENT-CLASS-60-271 ..... c 28 N72-11708 *
US-PATENT-CLASS-60-271 ..... c 28 N72-23810 *
US-PATENT-CLASS-60-271 ..... c 07 N78-17055 *
US-PATENT-CLASS-60-271 ..... c 37 N78-17384 *
US-PATENT-CLASS-60-271 ..... c 07 N83-33884 *
US-PATENT-CLASS-60-275 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-291 ..... c 31 N73-13898 *
US-PATENT-CLASS-60-300 ..... c 28 N80-10374 *
US-PATENT-CLASS-60-303 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-303 ..... c 37 N84-33808 *
US-PATENT-CLASS-60-311 ..... c 35 N84-17555 *
US-PATENT-CLASS-60-316 ..... c 34 N76-18364 *
US-PATENT-CLASS-60-35.3 ..... c 28 N70-33265 *
US-PATENT-CLASS-60-35.3 ..... c 28 N70-40367 *
US-PATENT-CLASS-60-35.54 ..... c 28 N70-34294 *
US-PATENT-CLASS-60-35.54 ..... c 28 N70-38645 *
US-PATENT-CLASS-60-35.54 ..... c 28 N71-29153 *
US-PATENT-CLASS-60-35.55 ..... c 28 N70-34162 *
US-PATENT-CLASS-60-35.55 ..... c 28 N70-38711 *
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US-PATENT-CLASS-60-35.55 ..... c 15 N71-28951 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-33356 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-34175 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-36802 *
US-PATENT-CLASS-60-35.5 ..... c 21 N70-36938 *
US-PATENT-CLASS-60-35.5 ..... c 25 N70-36946 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-37245 *
US-PATENT-CLASS-60-35.5 ..... c 28 N70-37980 *
US-PATENT-CLASS-60-35.5 ..... c 28 N71-14043 *
US-PATENT-CLASS-60-35.5 ..... c 28 N71-15661 *
US-PATENT-CLASS-60-35.60 ..... c 28 N71-15659 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33284 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33331 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33374 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-33375 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-34860 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-35381 *
US-PATENT-CLASS-60-35.6 ..... c 27 N70-35534 *
US-PATENT-CLASS-60-35.6 ..... c 15 N70-36535 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-36806 *
US-PATENT-CLASS-60-35.6 ..... c 28 N70-36910 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N70-38504 *
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US-PATENT-CLASS-60-35.6 ..... c 33 N71-15623 *
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US-PATENT-CLASS-60-35.6 ..... c 28 N71-15660 *
US-PATENT-CLASS-60-35.6 ..... c 14 N71-27186 *
US-PATENT-CLASS-60-36 ..... c 15 N72-33477 *
US-PATENT-CLASS-60-37 ..... c 15 N73-13467 *
US-PATENT-CLASS-60-39.02 ..... c 07 N86-20389 *
US-PATENT-CLASS-60-39.03 ..... c 07 N77-23106 *
US-PATENT-CLASS-60-39.03 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-39.06 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-39.06 ..... c 07 N81-29129 *
US-PATENT-CLASS-60-39.07 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.07 ..... c 07 N82-32366 *
US-PATENT-CLASS-60-39.07 ..... c 07 N83-36029 *
US-PATENT-CLASS-60-39.07 ..... c 07 N86-20389 *
US-PATENT-CLASS-60-39.12 ..... c 28 N91-14495 *
US-PATENT-CLASS-60-39.14 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.14 ..... c 07 N79-10057 *
US-PATENT-CLASS-60-39.182 .... c 28 N91-14495 *
US-PATENT-CLASS-60-39.23 ..... c 20 N76-14190 *
US-PATENT-CLASS-60-39.23 ..... c 07 N85-35195 *
US-PATENT-CLASS-60-39.24 ..... c 07 N81-19115 *
US-PATENT-CLASS-60-39.27 ..... c 07 N80-18039 *
US-PATENT-CLASS-60-39.28R ... c 28 N73-19793 *
US-PATENT-CLASS-60-39.28R ... c 07 N77-23106 *
US-PATENT-CLASS-60-39.28R ... c 37 N78-10467 *
US-PATENT-CLASS-60-39.28R ... c 37 N78-24545 *
US-PATENT-CLASS-60-39.28R ... c 37 N79-11403 *
US-PATENT-CLASS-60-39.29 ..... c 20 N76-14190 *
US-PATENT-CLASS-60-39.29 ..... c 35 N76-14431 *
US-PATENT-CLASS-60-39.29 ..... c 07 N82-32366 *
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US-PATENT-CLASS-60-39.31 ..... c 07 N78-18066 *
US-PATENT-CLASS-60-39.31 ..... c 07 N79-14096 *
US-PATENT-CLASS-60-39.33 ..... c 44 N78-32539 *
US-PATENT-CLASS-60-39.36 ..... c 28 N71-20330 *
US-PATENT-CLASS-60-39.36 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.46M ... c 20 N82-18314 *
US-PATENT-CLASS-60-39.465 .... c 20 N86-26368 *
US-PATENT-CLASS-60-39.46 ..... c 27 N71-15635 *
US-PATENT-CLASS-60-39.46 ..... c 15 N74-27360 *
US-PATENT-CLASS-60-39.47 ..... c 27 N71-16392 *
US-PATENT-CLASS-60-39.48 ..... c 28 N70-38199 *
US-PATENT-CLASS-60-39.48 ..... c 28 N70-39931 *
US-PATENT-CLASS-60-39.48 ..... c 27 N71-28929 *
US-PATENT-CLASS-60-39.51R ... c 25 N78-10224 *
US-PATENT-CLASS-60-39.52 ..... c 07 N78-25089 *
US-PATENT-CLASS-60-39.65 ..... c 28 N71-28915 *
US-PATENT-CLASS-60-39.65 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.65 ..... c 34 N78-27357 *
US-PATENT-CLASS-60-39.66 ..... c 15 N70-36411 *
US-PATENT-CLASS-60-39.66 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.66 ..... c 07 N77-23106 *
US-PATENT-CLASS-60-39.66 ..... c 37 N78-10467 *
US-PATENT-CLASS-60-39.66 ..... c 37 N79-11403 *
US-PATENT-CLASS-60-39.69R ... c 34 N78-27357 *
US-PATENT-CLASS-60-39.72 ..... c 23 N73-30665 *
US-PATENT-CLASS-60-39.74A ... c 15 N72-25455 *
US-PATENT-CLASS-60-39.74R ... c 23 N73-30665 *
US-PATENT-CLASS-60-39.74R ... c 20 N76-14190 *
US-PATENT-CLASS-60-39.74 ..... c 28 N70-33241 *
US-PATENT-CLASS-60-39.74 ..... c 28 N72-17843 *
US-PATENT-CLASS-60-39.74 ..... c 20 N79-21125 *
US-PATENT-CLASS-60-39.82E .... c 20 N78-24275 *
US-PATENT-CLASS-60-39.83 ..... c 07 N84-33410 *
US-PATENT-CLASS-60-39-48 ..... c 28 N72-11709 *
US-PATENT-CLASS-60-415 ..... c 85 N87-21755 *
US-PATENT-CLASS-60-508 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-516 ..... c 20 N75-24837 *
US-PATENT-CLASS-60-516 ..... c 44 N82-24640 *
US-PATENT-CLASS-60-517 ..... c 44 N76-29701 *
US-PATENT-CLASS-60-517 ..... c 37 N81-25370 *
US-PATENT-CLASS-60-518 ..... c 37 N81-14318 *
US-PATENT-CLASS-60-518 ..... c 37 N81-17432 *
US-PATENT-CLASS-60-51 ..... c 15 N71-27754 *
US-PATENT-CLASS-60-520 ..... c 37 N80-31790 *
US-PATENT-CLASS-60-524 ..... c 44 N81-17518 *
US-PATENT-CLASS-60-525 ..... c 37 N81-25370 *
US-PATENT-CLASS-60-527 ..... c 44 N74-33379 *
US-PATENT-CLASS-60-527 ..... c 37 N77-12402 *
US-PATENT-CLASS-60-527 ..... c 37 N77-19458 *
US-PATENT-CLASS-60-527 ..... c 37 N78-31426 *
US-PATENT-CLASS-60-527 ..... c 37 N86-19604 *
US-PATENT-CLASS-60-527 ..... c 35 N88-29151 *
US-PATENT-CLASS-60-528 ..... c 37 N86-19604 *
US-PATENT-CLASS-60-530 ..... c 20 N75-24837 *
US-PATENT-CLASS-60-53 ..... c 37 N77-22479 *
US-PATENT-CLASS-60-54.5 ..... c 15 N71-10658 *
US-PATENT-CLASS-60-560 ..... c 35 N78-10428 *
US-PATENT-CLASS-60-572 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-574 ..... c 35 N78-10428 *
US-PATENT-CLASS-60-606 ..... c 28 N80-10374 *
US-PATENT-CLASS-60-606 ..... c 37 N84-33808 *
US-PATENT-CLASS-60-632 ..... c 20 N80-18097 *
US-PATENT-CLASS-60-634 ..... c 37 N87-23983 *
US-PATENT-CLASS-60-638 ..... c 37 N87-23983 *
US-PATENT-CLASS-60-641.12 .... c 44 N84-23018 *
US-PATENT-CLASS-60-641.14 .... c 44 N82-24640 *
US-PATENT-CLASS-60-641 ..... c 44 N75-32581 *
US-PATENT-CLASS-60-641 ..... c 44 N77-32582 *
US-PATENT-CLASS-60-641 ..... c 44 N78-17460 *
US-PATENT-CLASS-60-641 ..... c 44 N78-32542 *
US-PATENT-CLASS-60-641 ..... c 44 N79-18443 *
US-PATENT-CLASS-60-641 ..... c 44 N81-17518 *
US-PATENT-CLASS-60-645 ..... c 34 N79-20335 *
US-PATENT-CLASS-60-649 ..... c 34 N79-20335 *
US-PATENT-CLASS-60-659 ..... c 44 N75-32581 *
US-PATENT-CLASS-60-659 ..... c 44 N76-31667 *
US-PATENT-CLASS-60-671 ..... c 44 N78-32542 *
US-PATENT-CLASS-60-698 ..... c 44 N84-23018 *
US-PATENT-CLASS-60-716 ..... c 44 N84-23018 *
US-PATENT-CLASS-60-721 ..... c 71 N79-20827 *
US-PATENT-CLASS-60-721 ..... c 71 N83-32515 *
US-PATENT-CLASS-60-721 ..... c 71 N83-32516 *
US-PATENT-CLASS-60-721 ..... c 71 N84-23233 *
US-PATENT-CLASS-60-726 ..... c 07 N81-29129 *
US-PATENT-CLASS-60-726 ..... c 07 N82-32366 *
US-PATENT-CLASS-60-730 ..... c 05 N81-26114 *
US-PATENT-CLASS-60-730 ..... c 37 N84-22958 *
US-PATENT-CLASS-60-730 ..... c 25 N90-11824 *
US-PATENT-CLASS-60-732 ..... c 25 N90-11824 *
US-PATENT-CLASS-60-733 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-736 ..... c 37 N84-22958 *
US-PATENT-CLASS-60-736 ..... c 07 N86-20389 *
US-PATENT-CLASS-60-737 ..... c 07 N81-29129 *
US-PATENT-CLASS-60-746 ..... c 07 N80-26298 *
US-PATENT-CLASS-60-746 ..... c 20 N87-14420 *
US-PATENT-CLASS-60-748 ..... c 07 N85-35195 *
US-PATENT-CLASS-60-757 ..... c 07 N84-24577 *
US-PATENT-CLASS-60-836 ..... c 24 N78-14096 *
US-PATENT-CLASS-60-97 ..... c 03 N71-12260 *
US-PATENT-CLASS-604-114 ..... c 52 N83-27577 *
US-PATENT-CLASS-604-151 ..... c 52 N83-27577 *
US-PATENT-CLASS-604-280 ..... c 52 N83-21785 *
US-PATENT-CLASS-604-368 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-378 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-396 ..... c 54 N84-11758 *
US-PATENT-CLASS-604-8 ..... c 52 N83-21785 *
US-PATENT-CLASS-61-83 ..... c 18 N74-22136 *
US-PATENT-CLASS-62-DIG.1 ..... c 34 N84-22903 *
US-PATENT-CLASS-62-DIG.5 ..... c 05 N81-26114 *
US-PATENT-CLASS-62-100 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-100 ..... c 28 N78-24365 *
US-PATENT-CLASS-62-121 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-128 ..... c 35 N84-28018 *
US-PATENT-CLASS-62-129 ..... c 31 N76-14284 *
US-PATENT-CLASS-62-12 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-148 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-15 ..... c 06 N70-34946 *
US-PATENT-CLASS-62-176 ..... c 05 N73-26071 *

US-PATENT-CLASS-62-18 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-207 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-209 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-217 ..... c 31 N77-10229 *
US-PATENT-CLASS-62-235.1 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-238.3 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-239 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-244 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-259 ..... c 05 N73-20137 *
US-PATENT-CLASS-62-259 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-259 ..... c 54 N78-32721 *
US-PATENT-CLASS-62-264 ..... c 34 N84-22903 *
US-PATENT-CLASS-62-268 ..... c 14 N71-20427 *
US-PATENT-CLASS-62-268 ..... c 34 N79-20336 *
US-PATENT-CLASS-62-269 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-285 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-288 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-289 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-290 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-295 ..... c 35 N83-32026 *
US-PATENT-CLASS-62-2 ..... c 15 N71-15906 *
US-PATENT-CLASS-62-315 ..... c 34 N77-19353 *
US-PATENT-CLASS-62-317 ..... c 77 N75-20139 *
US-PATENT-CLASS-62-333 ..... c 34 N91-21473 *
US-PATENT-CLASS-62-376 ..... c 31 N78-17237 *
US-PATENT-CLASS-62-376 ..... c 34 N79-20336 *
US-PATENT-CLASS-62-383 ..... c 33 N82-24419 *
US-PATENT-CLASS-62-384 ..... c 23 N71-24725 *
US-PATENT-CLASS-62-384 ..... c 31 N87-21159 *
US-PATENT-CLASS-62-384 ..... c 34 N91-21473 *
US-PATENT-CLASS-62-3 ..... c 20 N75-24837 *
US-PATENT-CLASS-62-3 ..... c 34 N78-17335 *
US-PATENT-CLASS-62-3 ..... c 34 N83-29625 *
US-PATENT-CLASS-62-3 ..... c 31 N85-29082 *
US-PATENT-CLASS-62-40 ..... c 15 N71-24044 *
US-PATENT-CLASS-62-40 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-45 ..... c 15 N70-33323 *
US-PATENT-CLASS-62-45 ..... c 31 N70-41871 *
US-PATENT-CLASS-62-45 ..... c 33 N71-25351 *
US-PATENT-CLASS-62-45 ..... c 33 N71-28892 *
US-PATENT-CLASS-62-45 ..... c 15 N73-12486 *
US-PATENT-CLASS-62-45 ..... c 35 N74-15093 *
US-PATENT-CLASS-62-45 ..... c 31 N89-29578 *
US-PATENT-CLASS-62-467R ..... c 34 N84-22903 *
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US-PATENT-CLASS-62-467 ..... c 20 N75-24837 *
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US-PATENT-CLASS-62-467 ..... c 31 N89-14351 *
US-PATENT-CLASS-62-467 ..... c 31 N90-21215 *
US-PATENT-CLASS-62-475 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-476 ..... c 44 N82-26776 *
US-PATENT-CLASS-62-47 ..... c 28 N81-14103 *
US-PATENT-CLASS-62-48 ..... c 28 N78-24365 *
US-PATENT-CLASS-62-48 ..... c 31 N83-31897 *
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US-PATENT-CLASS-62-48 ..... c 31 N89-29578 *
US-PATENT-CLASS-62-49 ..... c 31 N76-14284 *
US-PATENT-CLASS-62-4 ..... c 44 N77-32581 *
US-PATENT-CLASS-62-4 ..... c 44 N78-17460 *
US-PATENT-CLASS-62-50 ..... c 15 N70-34247 *
US-PATENT-CLASS-62-50 ..... c 35 N78-12390 *
US-PATENT-CLASS-62-514 R ..... c 35 N83-32026 *
US-PATENT-CLASS-62-514-JT ..... c 31 N89-14351 *
US-PATENT-CLASS-62-514-R ..... c 31 N87-21159 *
US-PATENT-CLASS-62-514-R ..... c 37 N87-23982 *
US-PATENT-CLASS-62-514-R ..... c 31 N89-12785 *
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US-PATENT-CLASS-62-514R ..... c 35 N78-12390 *
US-PATENT-CLASS-62-514R ..... c 31 N78-17237 *
US-PATENT-CLASS-62-514R ..... c 31 N78-25256 *
US-PATENT-CLASS-62-514R ..... c 51 N79-10694 *
US-PATENT-CLASS-62-514R ..... c 31 N79-17029 *
US-PATENT-CLASS-62-514R ..... c 34 N79-20336 *
US-PATENT-CLASS-62-514R ..... c 35 N81-14287 *
US-PATENT-CLASS-62-514R ..... c 31 N83-31897 *
US-PATENT-CLASS-62-514R ..... c 34 N83-34221 *
US-PATENT-CLASS-62-514R ..... c 31 N88-14223 *
US-PATENT-CLASS-62-514 ..... c 23 N71-26654 *
US-PATENT-CLASS-62-51 ..... c 15 N72-17453 *
US-PATENT-CLASS-62-55.5 ..... c 11 N71-24964 *
US-PATENT-CLASS-62-55.5 ..... c 15 N72-22484 *
US-PATENT-CLASS-62-55 ..... c 15 N70-38020 *
US-PATENT-CLASS-62-55 ..... c 34 N77-30399 *
US-PATENT-CLASS-62-56 ..... c 05 N72-11084 *
US-PATENT-CLASS-62-62 ..... c 34 N83-34221 *
US-PATENT-CLASS-62-6 ..... c 15 N69-23190 * #
US-PATENT-CLASS-62-6 ..... c 23 N71-15467 *
US-PATENT-CLASS-62-6 ..... c 15 N71-23025 *
US-PATENT-CLASS-62-6 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-6 ..... c 37 N76-29590 *
US-PATENT-CLASS-62-6 ..... c 44 N76-29701 *
US-PATENT-CLASS-62-6 ..... c 44 N83-28574 *
US-PATENT-CLASS-62-6 ..... c 31 N85-21404 *
US-PATENT-CLASS-62-78 ..... c 51 N79-10694 *
US-PATENT-CLASS-62-7 ..... c 15 N73-12486 *
US-PATENT-CLASS-62-80 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-85 ..... c 23 N72-25619 *
US-PATENT-CLASS-62-89 ..... c 05 N73-26071 *
US-PATENT-CLASS-62-90 ..... c 34 N91-21473 *
US-PATENT-CLASS-62-93 ..... c 15 N69-21465 * #
US-PATENT-CLASS-62-93 ..... c 03 N72-28025 *
US-PATENT-CLASS-62-93 ..... c 77 N75-20139 *
US-PATENT-CLASS-623-62 ..... c 54 N91-32795 *
US-PATENT-CLASS-623-63 ..... c 54 N91-32795 *
US-PATENT-CLASS-64-18 ..... c 15 N71-28467 *
US-PATENT-CLASS-64-27 ..... c 15 N71-28959 *
US-PATENT-CLASS-64-28 ..... c 15 N69-27505 * #
US-PATENT-CLASS-65-DIG.11 ..... c 37 N74-21063 *
US-PATENT-CLASS-65-DIG.4 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-DIG.7 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-102 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-108 ..... c 35 N77-24455 *
US-PATENT-CLASS-65-11.1 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-12 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-134 ..... c 71 N83-35781 *
US-PATENT-CLASS-65-134 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-136 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-13 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-142 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-142 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-142 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-142 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-142 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-142 ..... c 26 N86-32551 *
US-PATENT-CLASS-65-160 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-1 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-21.2 ..... c 26 N86-32551 *
US-PATENT-CLASS-65-21.3 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-21.3 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-21.4 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-21.4 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-21.4 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-21.4 ..... c 71 N84-28568 *
US-PATENT-CLASS-65-21.4 ..... c 31 N91-32240 *
US-PATENT-CLASS-65-213 ..... c 71 N84-16940 *
US-PATENT-CLASS-65-214 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-22 ..... c 31 N81-33319 *
US-PATENT-CLASS-65-22 ..... c 27 N82-28442 *
US-PATENT-CLASS-65-22 ..... c 31 N83-31896 *
US-PATENT-CLASS-65-22 ..... c 31 N83-35176 *
US-PATENT-CLASS-65-2 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-2 ..... c 31 N86-21718 *
US-PATENT-CLASS-65-2 ..... c 27 N87-21111 *
US-PATENT-CLASS-65-30R ..... c 27 N78-32260 *
US-PATENT-CLASS-65-32 ..... c 71 N78-10837 *
US-PATENT-CLASS-65-3 ..... c 37 N75-26371 *
US-PATENT-CLASS-65-4B ..... c 71 N78-10837 *
US-PATENT-CLASS-65-43 ..... c 37 N75-15992 *
US-PATENT-CLASS-65-43 ..... c 24 N79-25143 *
US-PATENT-CLASS-65-59A ..... c 35 N77-24455 *
US-PATENT-CLASS-65-60D ..... c 27 N78-32260 *
US-PATENT-CLASS-65-61 ..... c 74 N80-24149 *
US-PATENT-CLASS-65-7 ..... c 18 N71-23088 *
US-PATENT-CLASS-65-87 ..... c 71 N78-10837 *
US-PATENT-CLASS-6554 ..... c 35 N77-24455 *
US-PATENT-CLASS-6564 ..... c 35 N77-24455 *
US-PATENT-CLASS-70-58 ..... c 33 N81-25299 *
US-PATENT-CLASS-71-98 ..... c 51 N83-17045 *
US-PATENT-CLASS-72-253 ..... c 15 N71-22797 *
US-PATENT-CLASS-72-258 ..... c 15 N73-13464 *
US-PATENT-CLASS-72-307 ..... c 15 N72-12408 *
US-PATENT-CLASS-72-324 ..... c 71 N86-21276 *
US-PATENT-CLASS-72-341 ..... c 71 N86-21276 *
US-PATENT-CLASS-72-34 ..... c 15 N71-21536 *
US-PATENT-CLASS-72-354 ..... c 15 N71-23811 *
US-PATENT-CLASS-72-363 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-364 ..... c 15 N71-18579 *
US-PATENT-CLASS-72-369 ..... c 15 N71-24679 *
US-PATENT-CLASS-72-436 ..... c 37 N79-28550 *
US-PATENT-CLASS-72-447 ..... c 15 N73-13463 *
US-PATENT-CLASS-72-451 ..... c 37 N79-28550 *
US-PATENT-CLASS-72-453 ..... c 37 N76-18454 *
US-PATENT-CLASS-72-467 ..... c 15 N71-23817 *
US-PATENT-CLASS-72-46 ..... c 24 N75-33181 *
US-PATENT-CLASS-72-470 ..... c 37 N79-28550 *
US-PATENT-CLASS-72-476 ..... c 15 N73-13463 *
US-PATENT-CLASS-72-53 ..... c 15 N71-18616 *
US-PATENT-CLASS-72-53 ..... c 15 N73-32360 *
US-PATENT-CLASS-72-54 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-56 ..... c 15 N70-34249 *
US-PATENT-CLASS-72-56 ..... c 15 N71-24833 *
US-PATENT-CLASS-72-56 ..... c 15 N71-24865 *
US-PATENT-CLASS-72-56 ..... c 15 N71-26148 *
US-PATENT-CLASS-72-60 ..... c 15 N71-24836 *
US-PATENT-CLASS-72-61 ..... c 15 N71-26346 *
US-PATENT-CLASS-72-63 ..... c 20 N75-18310 *
US-PATENT-CLASS-72-63 ..... c 37 N76-14461 *
US-PATENT-CLASS-72-750 ..... c 35 N88-24927 *
US-PATENT-CLASS-72-83 ..... c 15 N71-22723 *
US-PATENT-CLASS-73-DIG.11 ..... c 35 N78-18390 *
US-PATENT-CLASS-73-1-DV ..... c 71 N86-21276 *
US-PATENT-CLASS-73-1-DV ..... c 71 N87-21653 *
US-PATENT-CLASS-73-1B ..... c 35 N76-24523 *
US-PATENT-CLASS-73-1B ..... c 35 N84-28019 *
US-PATENT-CLASS-73-1DV ..... c 14 N73-27379 *
US-PATENT-CLASS-73-1F ..... c 35 N74-21019 *
US-PATENT-CLASS-73-1R ..... c 14 N71-29134 *
US-PATENT-CLASS-73-1R ..... c 35 N75-15932 *
US-PATENT-CLASS-73-1R ..... c 35 N76-15432 *
US-PATENT-CLASS-73-100 ..... c 15 N70-41993 *
US-PATENT-CLASS-73-100 ..... c 32 N72-25877 *
US-PATENT-CLASS-73-103 ..... c 15 N71-17696 *
US-PATENT-CLASS-73-103 ..... c 14 N72-27412 *
US-PATENT-CLASS-73-103 ..... c 14 N73-32323 *
US-PATENT-CLASS-73-103 ..... c 35 N76-18400 *
US-PATENT-CLASS-73-104 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-105 ..... c 14 N70-34161 *
US-PATENT-CLASS-73-105 ..... c 14 N71-17586 *
US-PATENT-CLASS-73-115 ..... c 35 N79-14345 *
US-PATENT-CLASS-73-115 ..... c 07 N84-22559 *
US-PATENT-CLASS-73-116 ..... c 11 N70-33278 *
US-PATENT-CLASS-73-116 ..... c 11 N70-34844 *
US-PATENT-CLASS-73-116 ..... c 14 N70-40203 *
US-PATENT-CLASS-73-116 ..... c 11 N70-41677 *
US-PATENT-CLASS-73-116 ..... c 11 N71-10604 *
US-PATENT-CLASS-73-116 ..... c 31 N71-15643 *
US-PATENT-CLASS-73-117.1 ..... c 11 N72-27262 *
US-PATENT-CLASS-73-117.1 ..... c 09 N84-27749 *
US-PATENT-CLASS-73-117.4 ..... c 14 N71-20429 *
US-PATENT-CLASS-73-117.4 ..... c 28 N71-27094 *
US-PATENT-CLASS-73-117.4 ..... c 35 N75-29382 *
US-PATENT-CLASS-73-117 ..... c 14 N71-22965 *
US-PATENT-CLASS-73-12 ..... c 14 N71-23225 *
US-PATENT-CLASS-73-12 ..... c 14 N71-26161 *
US-PATENT-CLASS-73-12 ..... c 14 N72-16282 *
US-PATENT-CLASS-73-12 ..... c 14 N72-25411 *
US-PATENT-CLASS-73-12 ..... c 14 N73-32327 *
US-PATENT-CLASS-73-12 ..... c 35 N74-21062 *
US-PATENT-CLASS-73-12 ..... c 35 N75-33367 *
US-PATENT-CLASS-73-12 ..... c 75 N76-14931 *
US-PATENT-CLASS-73-12 ..... c 35 N77-18417 *
US-PATENT-CLASS-73-12 ..... c 43 N79-25443 *
US-PATENT-CLASS-73-12 ..... c 43 N80-14423 *
US-PATENT-CLASS-73-12 ..... c 43 N80-23711 *
US-PATENT-CLASS-73-12 ..... c 37 N84-33807 *
US-PATENT-CLASS-73-133R ..... c 35 N77-14407 *
US-PATENT-CLASS-73-133 ..... c 14 N71-23725 *
US-PATENT-CLASS-73-133 ..... c 15 N72-22482 *
US-PATENT-CLASS-73-134 ..... c 14 N70-40201 *
US-PATENT-CLASS-73-136R ..... c 15 N72-26371 *
US-PATENT-CLASS-73-136 ..... c 14 N70-34818 *
US-PATENT-CLASS-73-140 ..... c 11 N72-25288 *
US-PATENT-CLASS-73-141AB ..... c 14 N72-33377 *
US-PATENT-CLASS-73-141A ..... c 14 N72-21405 *
US-PATENT-CLASS-73-141A ..... c 14 N72-22437 *
US-PATENT-CLASS-73-141A ..... c 35 N74-26945 *
US-PATENT-CLASS-73-141A ..... c 35 N74-27865 *
US-PATENT-CLASS-73-141A ..... c 35 N75-33369 *
US-PATENT-CLASS-73-141A ..... c 52 N81-20703 *
US-PATENT-CLASS-73-141 ..... c 14 N70-41957 *
US-PATENT-CLASS-73-141 ..... c 15 N71-20441 *
US-PATENT-CLASS-73-141 ..... c 14 N71-23790 *
US-PATENT-CLASS-73-141 ..... c 26 N71-25490 *
US-PATENT-CLASS-73-142 ..... c 15 N70-40180 *
US-PATENT-CLASS-73-142 ..... c 14 N71-20439 *
US-PATENT-CLASS-73-143 ..... c 35 N75-19615 *
US-PATENT-CLASS-73-143 ..... c 14 N75-24794 *
US-PATENT-CLASS-73-144 ..... c 15 N71-22878 *
US-PATENT-CLASS-73-147 ..... c 11 N70-33287 *
US-PATENT-CLASS-73-147 ..... c 14 N70-33386 *
US-PATENT-CLASS-73-147 ..... c 14 N70-34813 *
US-PATENT-CLASS-73-147 ..... c 11 N70-36913 *
US-PATENT-CLASS-73-147 ..... c 14 N70-40400 *
US-PATENT-CLASS-73-147 ..... c 14 N70-41366 *
US-PATENT-CLASS-73-147 ..... c 11 N71-15926 *
US-PATENT-CLASS-73-147 ..... c 09 N71-16086 *
US-PATENT-CLASS-73-147 ..... c 12 N71-20436 *
US-PATENT-CLASS-73-147 ..... c 09 N71-20816 *
US-PATENT-CLASS-73-147 ..... c 11 N71-21481 *
US-PATENT-CLASS-73-147 ..... c 11 N71-23030 *
US-PATENT-CLASS-73-147 ..... c 15 N71-27006 *
US-PATENT-CLASS-73-147 ..... c 15 N71-28740 *
US-PATENT-CLASS-73-147 ..... c 11 N71-33612 *
US-PATENT-CLASS-73-147 ..... c 11 N72-17183 *
US-PATENT-CLASS-73-147 ..... c 14 N72-21407 *
US-PATENT-CLASS-73-147 ..... c 11 N72-22246 *
US-PATENT-CLASS-73-147 ..... c 11 N73-12264 *
US-PATENT-CLASS-73-147 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-147 ..... c 12 N73-25262 *
US-PATENT-CLASS-73-147 ..... c 12 N73-28144 *
US-PATENT-CLASS-73-147 ..... c 09 N74-17955 *
US-PATENT-CLASS-73-147 ..... c 34 N74-27730 *

US-PATENT-CLASS-73-147 ..... c 09 N75-12969 *
US-PATENT-CLASS-73-147 ..... c 09 N76-23273 *
US-PATENT-CLASS-73-147 ..... c 34 N76-27517 *
US-PATENT-CLASS-73-147 ..... c 09 N77-10071 *
US-PATENT-CLASS-73-147 ..... c 09 N78-31129 *
US-PATENT-CLASS-73-147 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-147 ..... c 09 N79-21083 *
US-PATENT-CLASS-73-147 ..... c 02 N80-20224 *
US-PATENT-CLASS-73-147 ..... c 06 N81-17057 *
US-PATENT-CLASS-73-147 ..... c 09 N82-11088 *
US-PATENT-CLASS-73-147 ..... c 09 N82-23254 *
US-PATENT-CLASS-73-147 ..... c 71 N83-17235 *
US-PATENT-CLASS-73-147 ..... c 44 N83-21503 *
US-PATENT-CLASS-73-147 ..... c 44 N83-21504 *
US-PATENT-CLASS-73-147 ..... c 74 N83-21949 *
US-PATENT-CLASS-73-147 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-147 ..... c 09 N84-34448 *
US-PATENT-CLASS-73-147 ..... c 09 N85-21178 *
US-PATENT-CLASS-73-147 ..... c 35 N86-32696 *
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US-PATENT-CLASS-73-147 ..... c 35 N87-28884 *
US-PATENT-CLASS-73-147 ..... c 02 N88-23759 *
US-PATENT-CLASS-73-147 ..... c 02 N89-12551 *
US-PATENT-CLASS-73-147 ..... c 35 N89-12841 *
US-PATENT-CLASS-73-147 ..... c 35 N89-14423 *
US-PATENT-CLASS-73-147 ..... c 35 N90-17117 *
US-PATENT-CLASS-73-147 ..... c 35 N90-23707 *
US-PATENT-CLASS-73-147 ..... c 09 N91-14356 *
US-PATENT-CLASS-73-147 ..... c 09 N91-14357 *
US-PATENT-CLASS-73-149 ..... c 14 N72-11363 *
US-PATENT-CLASS-73-149 ..... c 52 N74-10975 *
US-PATENT-CLASS-73-149 ..... c 35 N91-15511 *
US-PATENT-CLASS-73-149 ..... c 35 N91-21493 *
US-PATENT-CLASS-73-149 ..... c 35 N91-21495 *
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US-PATENT-CLASS-73-15.4 ..... c 35 N74-32879 *
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US-PATENT-CLASS-73-15.6 ..... c 14 N71-24234 *
US-PATENT-CLASS-73-15.6 ..... c 14 N71-26136 *
US-PATENT-CLASS-73-15.6 ..... c 32 N72-25877 *
US-PATENT-CLASS-73-15.6 ..... c 09 N74-19528 *
US-PATENT-CLASS-73-15.6 ..... c 35 N76-24523 *
US-PATENT-CLASS-73-15.6 ..... c 35 N77-22450 *
US-PATENT-CLASS-73-15.6 ..... c 39 N78-10493 *
US-PATENT-CLASS-73-15R ..... c 33 N72-25913 *
US-PATENT-CLASS-73-15R ..... c 14 N73-28486 *
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US-PATENT-CLASS-73-15R ..... c 31 N74-27900 *
US-PATENT-CLASS-73-15R ..... c 09 N77-27131 *
US-PATENT-CLASS-73-15R ..... c 74 N81-17887 *
US-PATENT-CLASS-73-150-A ..... c 39 N86-20841 *
US-PATENT-CLASS-73-150R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-155 ..... c 46 N80-10709 *
US-PATENT-CLASS-73-155 ..... c 46 N80-24906 *
US-PATENT-CLASS-73-159 ..... c 31 N79-11246 *
US-PATENT-CLASS-73-15 ..... c 14 N70-34156 *
US-PATENT-CLASS-73-15 ..... c 14 N71-15992 *
US-PATENT-CLASS-73-15 ..... c 14 N71-22964 *
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US-PATENT-CLASS-73-15 ..... c 11 N71-28629 *
US-PATENT-CLASS-73-161 ..... c 11 N72-25288 *
US-PATENT-CLASS-73-167 ..... c 15 N84-16231 *
US-PATENT-CLASS-73-167 ..... c 25 N91-32196 *
US-PATENT-CLASS-73-170A ..... c 35 N78-27384 *
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US-PATENT-CLASS-73-170R ..... c 07 N73-20175 *
US-PATENT-CLASS-73-170R ..... c 14 N73-28487 *
US-PATENT-CLASS-73-170R ..... c 14 N73-32327 *
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US-PATENT-CLASS-73-170R ..... c 35 N75-33367 *
US-PATENT-CLASS-73-170R ..... c 91 N76-30131 *
US-PATENT-CLASS-73-170R ..... c 06 N83-10040 *
US-PATENT-CLASS-73-170R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-170R ..... c 19 N91-14412 *
US-PATENT-CLASS-73-170 ..... c 14 N71-14996 *
US-PATENT-CLASS-73-170 ..... c 17 N73-32415 *
US-PATENT-CLASS-73-178-R ..... c 06 N84-34443 *
US-PATENT-CLASS-73-178-R ..... c 06 N87-22678 *
US-PATENT-CLASS-73-178-R ..... c 02 N88-23759 *
US-PATENT-CLASS-73-178-T ..... c 09 N90-20096 *
US-PATENT-CLASS-73-178R ..... c 35 N75-29381 *
US-PATENT-CLASS-73-178R ..... c 04 N77-19056 *
US-PATENT-CLASS-73-178R ..... c 37 N78-27424 *
US-PATENT-CLASS-73-178R ..... c 35 N79-26372 *
US-PATENT-CLASS-73-178R ..... c 06 N81-17057 *
US-PATENT-CLASS-73-178R ..... c 04 N81-21047 *
US-PATENT-CLASS-73-178R ..... c 18 N81-29152 *
US-PATENT-CLASS-73-178R ..... c 06 N82-16075 *
US-PATENT-CLASS-73-178R ..... c 06 N83-10040 *
US-PATENT-CLASS-73-178R ..... c 06 N84-27733 *
US-PATENT-CLASS-73-178T ..... c 06 N86-27280 *
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US-PATENT-CLASS-73-179 ..... c 34 N85-21568 *

US-PATENT-CLASS-73-17 ..... c 06 N71-24607 *
US-PATENT-CLASS-73-180 ..... c 35 N78-14364 *
US-PATENT-CLASS-73-180 ..... c 02 N80-28300 *
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US-PATENT-CLASS-73-182 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-182 ..... c 35 N74-32878 *
US-PATENT-CLASS-73-182 ..... c 35 N76-14429 *
US-PATENT-CLASS-73-182 ..... c 02 N80-28300 *
US-PATENT-CLASS-73-187 ..... c 35 N85-20295 *
US-PATENT-CLASS-73-188 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-189 ..... c 20 N71-16281 *
US-PATENT-CLASS-73-189 ..... c 02 N71-23007 *
US-PATENT-CLASS-73-189 ..... c 14 N71-23726 *
US-PATENT-CLASS-73-189 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-189 ..... c 14 N73-25460 *
US-PATENT-CLASS-73-189 ..... c 35 N76-24524 *
US-PATENT-CLASS-73-189 ..... c 34 N76-27517 *
US-PATENT-CLASS-73-189 ..... c 34 N77-27345 *
US-PATENT-CLASS-73-189 ..... c 34 N79-12359 *
US-PATENT-CLASS-73-189 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-189 ..... c 47 N84-28292 *
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US-PATENT-CLASS-73-190R ..... c 34 N74-27859 *
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US-PATENT-CLASS-73-190 ..... c 33 N71-29051 *
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US-PATENT-CLASS-73-194EM ... c 14 N73-32326 *
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US-PATENT-CLASS-73-194E ..... c 14 N73-20478 *
US-PATENT-CLASS-73-194E ..... c 05 N73-32015 *
US-PATENT-CLASS-73-194F ..... c 14 N72-11365 *
US-PATENT-CLASS-73-194M ..... c 05 N73-32015 *
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US-PATENT-CLASS-73-194VS .... c 34 N79-12359 *
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US-PATENT-CLASS-73-194 ..... c 14 N71-23226 *
US-PATENT-CLASS-73-194 ..... c 12 N71-26546 *
US-PATENT-CLASS-73-195 ..... c 35 N75-30503 *
US-PATENT-CLASS-73-198 ..... c 14 N69-24257 * #
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US-PATENT-CLASS-73-204 ..... c 35 N76-24524 *
US-PATENT-CLASS-73-204 ..... c 35 N77-20400 *
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US-PATENT-CLASS-73-205L ..... c 02 N80-20224 *
US-PATENT-CLASS-73-212 ..... c 14 N70-36824 *
US-PATENT-CLASS-73-212 ..... c 14 N73-13415 *
US-PATENT-CLASS-73-212 ..... c 35 N76-14429 *
US-PATENT-CLASS-73-212 ..... c 06 N80-18036 *
US-PATENT-CLASS-73-221 ..... c 35 N75-19611 *
US-PATENT-CLASS-73-228 ..... c 34 N77-27345 *
US-PATENT-CLASS-73-23.1 ..... c 06 N69-39936 * #
US-PATENT-CLASS-73-23.1 ..... c 06 N72-17094 *
US-PATENT-CLASS-73-23.1 ..... c 06 N72-25146 *
US-PATENT-CLASS-73-23.1 ..... c 25 N76-18245 *
US-PATENT-CLASS-73-23.1 ..... c 23 N77-17161 *
US-PATENT-CLASS-73-23 ..... c 14 N71-10774 *
US-PATENT-CLASS-73-23 ..... c 05 N71-11202 *
US-PATENT-CLASS-73-23 ..... c 52 N74-20728 *
US-PATENT-CLASS-73-23 ..... c 35 N75-29380 *
US-PATENT-CLASS-73-23 ..... c 25 N78-15210 *
US-PATENT-CLASS-73-23 ..... c 35 N78-19465 *
US-PATENT-CLASS-73-24 ..... c 06 N69-39733 * #
US-PATENT-CLASS-73-28 ..... c 14 N73-27376 * #
US-PATENT-CLASS-73-28 ..... c 14 N73-30395 *
US-PATENT-CLASS-73-28 ..... c 35 N76-18401 *
US-PATENT-CLASS-73-28 ..... c 35 N78-18390 *
US-PATENT-CLASS-73-290-R ..... c 35 N88-29150 *
US-PATENT-CLASS-73-290-V ..... c 35 N89-14407 *
US-PATENT-CLASS-73-290B ..... c 14 N72-11363 *
US-PATENT-CLASS-73-290 ..... c 14 N71-10500 *
US-PATENT-CLASS-73-290 ..... c 14 N71-21007 *
US-PATENT-CLASS-73-295 ..... c 23 N71-17802 *
US-PATENT-CLASS-73-295 ..... c 31 N76-14284 *
US-PATENT-CLASS-73-29 ..... c 14 N71-17701 *
US-PATENT-CLASS-73-29 ..... c 14 N71-20741 *
US-PATENT-CLASS-73-301 ..... c 12 N71-26387 *
US-PATENT-CLASS-73-304-R ..... c 35 N88-29150 *
US-PATENT-CLASS-73-304C ..... c 14 N71-29134 *
US-PATENT-CLASS-73-304 ..... c 14 N72-22442 *
US-PATENT-CLASS-73-30 ..... c 14 N70-41681 *
US-PATENT-CLASS-73-32R ..... c 76 N75-12810 *
US-PATENT-CLASS-73-32R ..... c 35 N84-28018 *
US-PATENT-CLASS-73-32 ..... c 14 N70-41330 *
US-PATENT-CLASS-73-336.5 ..... c 35 N78-25391 *
US-PATENT-CLASS-73-336.5 ..... c 35 N85-29212 *
US-PATENT-CLASS-73-336.5 ..... c 35 N87-22953 *
US-PATENT-CLASS-73-339 ..... c 33 N73-27796 *
US-PATENT-CLASS-73-341 ..... c 14 N71-15598 *
US-PATENT-CLASS-73-341 ..... c 44 N82-16474 *

US-PATENT-CLASS-73-343R ..... c 52 N77-10780 *
US-PATENT-CLASS-73-343R ..... c 35 N80-18357 *
US-PATENT-CLASS-73-343 ..... c 33 N71-16356 *
US-PATENT-CLASS-73-343 ..... c 11 N71-21475 *
US-PATENT-CLASS-73-355R ..... c 14 N72-24477 *
US-PATENT-CLASS-73-355R ..... c 35 N80-18359 *
US-PATENT-CLASS-73-355 ..... c 14 N71-27323 *
US-PATENT-CLASS-73-355 ..... c 14 N72-28437 *
US-PATENT-CLASS-73-356 ..... c 35 N75-25122 *
US-PATENT-CLASS-73-35 ..... c 33 N72-27959 *
US-PATENT-CLASS-73-361 ..... c 35 N81-26431 *
US-PATENT-CLASS-73-362AR .... c 35 N77-27368 *
US-PATENT-CLASS-73-37.5 ..... c 35 N86-32698 *
US-PATENT-CLASS-73-379 ..... c 05 N73-27941 *
US-PATENT-CLASS-73-379 ..... c 05 N73-30078 *
US-PATENT-CLASS-73-379 ..... c 35 N75-15932 *
US-PATENT-CLASS-73-379 ..... c 39 N83-20280 *
US-PATENT-CLASS-73-382 ..... c 10 N71-13537 *
US-PATENT-CLASS-73-382 ..... c 14 N71-17587 *
US-PATENT-CLASS-73-384 ..... c 15 N70-37925 *
US-PATENT-CLASS-73-388 ..... c 35 N74-32878 *
US-PATENT-CLASS-73-389 ..... c 12 N71-24692 *
US-PATENT-CLASS-73-38 ..... c 18 N71-24934 *
US-PATENT-CLASS-73-398AR .... c 52 N74-27566 *
US-PATENT-CLASS-73-398AR .... c 52 N76-29896 *
US-PATENT-CLASS-73-398C ..... c 14 N72-22438 *
US-PATENT-CLASS-73-398C ..... c 33 N76-21390 *
US-PATENT-CLASS-73-398 ..... c 14 N70-34816 *
US-PATENT-CLASS-73-398 ..... c 14 N71-21072 *
US-PATENT-CLASS-73-398 ..... c 09 N71-24597 *
US-PATENT-CLASS-73-398 ..... c 14 N73-30394 *
US-PATENT-CLASS-73-399 ..... c 37 N76-18454 *
US-PATENT-CLASS-73-3 ..... c 34 N74-27730 *
US-PATENT-CLASS-73-3 ..... c 34 N86-12547 *
US-PATENT-CLASS-73-4R ..... c 35 N74-13132 *
US-PATENT-CLASS-73-4R ..... c 35 N79-14347 *
US-PATENT-CLASS-73-4R ..... c 35 N80-18358 *
US-PATENT-CLASS-73-4V ..... c 35 N74-15092 *
US-PATENT-CLASS-73-40.5A ..... c 35 N85-21597 *
US-PATENT-CLASS-73-40.5 ..... c 14 N71-10779 *
US-PATENT-CLASS-73-40.7 ..... c 15 N71-24910 *
US-PATENT-CLASS-73-40.7 ..... c 14 N71-28992 *
US-PATENT-CLASS-73-40.7 ..... c 35 N74-32879 *
US-PATENT-CLASS-73-40.7 ..... c 35 N85-29213 *
US-PATENT-CLASS-73-400 ..... c 14 N71-23093 *
US-PATENT-CLASS-73-400 ..... c 14 N71-24232 *
US-PATENT-CLASS-73-400 ..... c 35 N79-33450 *
US-PATENT-CLASS-73-401 ..... c 14 N70-34820 *
US-PATENT-CLASS-73-40 ..... c 35 N75-15931 *
US-PATENT-CLASS-73-40 ..... c 35 N80-18358 *
US-PATENT-CLASS-73-419 ..... c 14 N71-22752 *
US-PATENT-CLASS-73-420 ..... c 35 N74-13132 *
US-PATENT-CLASS-73-421.5R ... c 13 N72-25323 *
US-PATENT-CLASS-73-421.5R ... c 14 N73-30395 *
US-PATENT-CLASS-73-421.5R ... c 52 N74-20728 *
US-PATENT-CLASS-73-421.5R ... c 35 N76-18401 *
US-PATENT-CLASS-73-421.5R ... c 35 N77-32456 *
US-PATENT-CLASS-73-421.5 ..... c 14 N73-12444 *
US-PATENT-CLASS-73-421R ..... c 54 N76-14804 *
US-PATENT-CLASS-73-422GC .... c 13 N72-25323 *
US-PATENT-CLASS-73-422TC .... c 13 N72-25323 *
US-PATENT-CLASS-73-422 ..... c 14 N71-20435 *
US-PATENT-CLASS-73-425.2 ..... c 91 N76-30131 *
US-PATENT-CLASS-73-425.4R ... c 35 N78-27384 *
US-PATENT-CLASS-73-425.6 ..... c 15 N72-21465 *
US-PATENT-CLASS-73-432.1 ..... c 34 N90-19534 *
US-PATENT-CLASS-73-432.1 ..... c 34 N91-31596 *
US-PATENT-CLASS-73-432PS .... c 76 N75-12810 *
US-PATENT-CLASS-73-432PS .... c 35 N75-33367 *
US-PATENT-CLASS-73-432PS .... c 35 N78-18390 *
US-PATENT-CLASS-73-432R ..... c 33 N73-27796 *
US-PATENT-CLASS-73-432R ..... c 14 N73-28487 *
US-PATENT-CLASS-73-432R ..... c 91 N76-30131 *
US-PATENT-CLASS-73-432R ..... c 35 N77-19385 *
US-PATENT-CLASS-73-432R ..... c 35 N78-18390 *
US-PATENT-CLASS-73-432R ..... c 15 N84-16231 *
US-PATENT-CLASS-73-432SD .... c 11 N72-27262 *
US-PATENT-CLASS-73-432SD .... c 11 N73-20267 *
US-PATENT-CLASS-73-432SD .... c 35 N77-18417 *
US-PATENT-CLASS-73-432T ..... c 74 N84-11921 *
US-PATENT-CLASS-73-432 ..... c 11 N70-34786 *
US-PATENT-CLASS-73-432 ..... c 11 N70-38675 *
US-PATENT-CLASS-73-432 ..... c 05 N70-42000 *
US-PATENT-CLASS-73-432 ..... c 31 N71-16221 *
US-PATENT-CLASS-73-432 ..... c 27 N71-16223 *
US-PATENT-CLASS-73-432 ..... c 30 N71-17788 *
US-PATENT-CLASS-73-432 ..... c 14 N71-23227 *
US-PATENT-CLASS-73-432 ..... c 10 N71-26339 *
US-PATENT-CLASS-73-432 ..... c 11 N71-28629 *
US-PATENT-CLASS-73-432 ..... c 14 N71-30026 *
US-PATENT-CLASS-73-432 ..... c 35 N74-21062 *
US-PATENT-CLASS-73-45.5 ..... c 12 N71-17573 *
US-PATENT-CLASS-73-456 ..... c 35 N78-24515 *
US-PATENT-CLASS-73-462 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-468 ..... c 37 N84-28082 *
US-PATENT-CLASS-73-46 ..... c 35 N75-19612 *

US-PATENT-CLASS-73-473 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-477 ..... c 35 N87-14670 *
US-PATENT-CLASS-73-49.2 ..... c 32 N71-24285 *
US-PATENT-CLASS-73-49.2 ..... c 35 N75-15931 *
US-PATENT-CLASS-73-49.2 ..... c 35 N75-19612 *
US-PATENT-CLASS-73-49.3 ..... c 14 N71-26672 *
US-PATENT-CLASS-73-49.8 ..... c 14 N69-27503 * #
US-PATENT-CLASS-73-49.8 ..... c 15 N71-29132 *
US-PATENT-CLASS-73-49.8 ..... c 14 N91-21175 *
US-PATENT-CLASS-73-490 ..... c 04 N81-21047 *
US-PATENT-CLASS-73-492 ..... c 14 N72-25411 *
US-PATENT-CLASS-73-493 ..... c 17 N76-29347 *
US-PATENT-CLASS-73-497 ..... c 14 N71-30265 *
US-PATENT-CLASS-73-497 ..... c 35 N74-15094 *
US-PATENT-CLASS-73-4 ..... c 14 N71-18481 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23036 *
US-PATENT-CLASS-73-4 ..... c 14 N71-23755 *
US-PATENT-CLASS-73-4 ..... c 14 N73-30390 *
US-PATENT-CLASS-73-502 ..... c 35 N86-32695 * #
US-PATENT-CLASS-73-504 ..... c 04 N81-21047 *
US-PATENT-CLASS-73-505 ..... c 23 N71-16098 *
US-PATENT-CLASS-73-505 ..... c 12 N75-24774 *
US-PATENT-CLASS-73-505 ..... c 71 N78-10837 *
US-PATENT-CLASS-73-505 ..... c 71 N79-20827 *
US-PATENT-CLASS-73-505 ..... c 71 N81-15767 *
US-PATENT-CLASS-73-505 ..... c 71 N83-32515 *
US-PATENT-CLASS-73-505 ..... c 71 N83-32516 *
US-PATENT-CLASS-73-505 ..... c 71 N83-36846 *
US-PATENT-CLASS-73-505 ..... c 71 N84-23233 *
US-PATENT-CLASS-73-505 ..... c 71 N85-22105 *
US-PATENT-CLASS-73-505 ..... c 71 N85-29693 *
US-PATENT-CLASS-73-505 ..... c 35 N86-20752 *
US-PATENT-CLASS-73-505 ..... c 26 N86-32551 *
US-PATENT-CLASS-73-505 ..... c 71 N88-24241 *
US-PATENT-CLASS-73-505 ..... c 71 N89-13236 *
US-PATENT-CLASS-73-505 ..... c 35 N89-14422 *
US-PATENT-CLASS-73-505 ..... c 71 N90-12289 *
US-PATENT-CLASS-73-505 ..... c 71 N91-14807 *
US-PATENT-CLASS-73-510 ..... c 18 N81-29152 *
US-PATENT-CLASS-73-515 ..... c 14 N72-25410 *
US-PATENT-CLASS-73-517B ..... c 35 N74-15094 *
US-PATENT-CLASS-73-517R ..... c 17 N76-29347 *
US-PATENT-CLASS-73-517 ..... c 11 N70-38196 *
US-PATENT-CLASS-73-517 ..... c 14 N70-41682 *
US-PATENT-CLASS-73-517 ..... c 14 N71-15969 *
US-PATENT-CLASS-73-521 ..... c 14 N72-25410 *
US-PATENT-CLASS-73-521 ..... c 35 N86-32695 * #
US-PATENT-CLASS-73-557 ..... c 35 N75-19614 *
US-PATENT-CLASS-73-557 ..... c 07 N76-27232 *
US-PATENT-CLASS-73-56 ..... c 35 N80-18357 *
US-PATENT-CLASS-73-571 ..... c 71 N90-12289 *
US-PATENT-CLASS-73-579 ..... c 39 N78-15512 *
US-PATENT-CLASS-73-579 ..... c 35 N79-10390 *
US-PATENT-CLASS-73-579 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-579 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-57 ..... c 14 N71-17584 *
US-PATENT-CLASS-73-57 ..... c 14 N73-14429 *
US-PATENT-CLASS-73-582 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-583 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-587 ..... c 35 N88-23966 *
US-PATENT-CLASS-73-588 ..... c 37 N84-33807 *
US-PATENT-CLASS-73-588 ..... c 27 N85-20126 *
US-PATENT-CLASS-73-589 ..... c 35 N79-10390 *
US-PATENT-CLASS-73-589 ..... c 35 N84-22933 *
US-PATENT-CLASS-73-589 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-594 ..... c 35 N84-22933 *
US-PATENT-CLASS-73-597 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-597 ..... c 52 N83-27578 *
US-PATENT-CLASS-73-597 ..... c 32 N87-14559 *
US-PATENT-CLASS-73-599 ..... c 71 N87-21652 *
US-PATENT-CLASS-73-599 ..... c 71 N87-21653 *
US-PATENT-CLASS-73-603 ..... c 38 N78-32447 *
US-PATENT-CLASS-73-60 ..... c 14 N73-14429 *
US-PATENT-CLASS-73-61.1C ..... c 23 N77-17161 *
US-PATENT-CLASS-73-61R ..... c 35 N78-27384 *
US-PATENT-CLASS-73-615 ..... c 32 N87-14559 *
US-PATENT-CLASS-73-61 ..... c 14 N71-26199 *
US-PATENT-CLASS-73-620 ..... c 35 N84-22928 *
US-PATENT-CLASS-73-626 ..... c 52 N79-26771 *
US-PATENT-CLASS-73-629 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-630 ..... c 39 N78-15512 *
US-PATENT-CLASS-73-631 ..... c 71 N91-27914 *
US-PATENT-CLASS-73-632 ..... c 38 N79-14398 *
US-PATENT-CLASS-73-633 ..... c 52 N79-14751 *
US-PATENT-CLASS-73-633 ..... c 35 N84-22928 *
US-PATENT-CLASS-73-64.4 ..... c 34 N83-31993 *
US-PATENT-CLASS-73-641 ..... c 38 N79-14398 *
US-PATENT-CLASS-73-644 ..... c 38 N79-14398 *
US-PATENT-CLASS-73-644 ..... c 52 N79-14751 *
US-PATENT-CLASS-73-646 ..... c 71 N78-14867 *
US-PATENT-CLASS-73-646 ..... c 35 N84-12445 *
US-PATENT-CLASS-73-647 ..... c 32 N79-24203 *
US-PATENT-CLASS-73-655 ..... c 35 N80-14371 *
US-PATENT-CLASS-73-657 ..... c 35 N85-30282 *
US-PATENT-CLASS-73-658 ..... c 35 N84-12445 *
US-PATENT-CLASS-73-658 ..... c 37 N91-14607 *

US-PATENT-CLASS-73-65 ..... c 14 N71-22992 *
US-PATENT-CLASS-73-661 ..... c 35 N80-14371 *
US-PATENT-CLASS-73-663 ..... c 14 N91-21176 *
US-PATENT-CLASS-73-67.1 ..... c 35 N75-12271 *
US-PATENT-CLASS-73-67.2 ..... c 11 N69-21540 * #
US-PATENT-CLASS-73-67.2 ..... c 15 N71-18132 *
US-PATENT-CLASS-73-67.2 ..... c 14 N72-22440 *
US-PATENT-CLASS-73-67.2 ..... c 35 N78-17358 *
US-PATENT-CLASS-73-67.3 ..... c 32 N73-26910 *
US-PATENT-CLASS-73-67.5R ..... c 38 N74-15395 *
US-PATENT-CLASS-73-67.7 ..... c 39 N77-28511 *
US-PATENT-CLASS-73-67.8S ..... c 35 N74-10415 *
US-PATENT-CLASS-73-67.8S ..... c 38 N74-15130 *
US-PATENT-CLASS-73-67.9 ..... c 52 N74-20726 *
US-PATENT-CLASS-73-683.31 ..... c 35 N81-29407 *
US-PATENT-CLASS-73-684.52 ..... c 35 N81-29407 *
US-PATENT-CLASS-73-69 ..... c 71 N74-31148 *
US-PATENT-CLASS-73-70.2 ..... c 14 N71-10616 *
US-PATENT-CLASS-73-705 ..... c 36 N85-21639 *
US-PATENT-CLASS-73-708 ..... c 34 N85-21568 *
US-PATENT-CLASS-73-71.2 ..... c 14 N70-34794 *
US-PATENT-CLASS-73-71.3 ..... c 35 N74-15146 *
US-PATENT-CLASS-73-71.4 ..... c 32 N71-16428 *
US-PATENT-CLASS-73-71.4 ..... c 32 N71-26681 *
US-PATENT-CLASS-73-71.5R ..... c 71 N74-31148 *
US-PATENT-CLASS-73-71.5U ..... c 38 N74-15395 *
US-PATENT-CLASS-73-71.6 ..... c 14 N71-27185 *
US-PATENT-CLASS-73-71.6 ..... c 14 N72-27412 *
US-PATENT-CLASS-73-71.6 ..... c 14 N73-13416 *
US-PATENT-CLASS-73-71.6 ..... c 14 N73-19421 *
US-PATENT-CLASS-73-71.6 ..... c 35 N77-18417 *
US-PATENT-CLASS-73-714 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-714 ..... c 34 N79-24285 *
US-PATENT-CLASS-73-714 ..... c 35 N84-14491 *
US-PATENT-CLASS-73-721 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-721 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-724 ..... c 32 N79-24203 *
US-PATENT-CLASS-73-724 ..... c 52 N80-18691 *
US-PATENT-CLASS-73-724 ..... c 33 N82-26572 *
US-PATENT-CLASS-73-753 ..... c 35 N85-21597 *
US-PATENT-CLASS-73-756 ..... c 35 N78-24515 *
US-PATENT-CLASS-73-756 ..... c 35 N79-14347 *
US-PATENT-CLASS-73-756 ..... c 35 N84-22934 *
US-PATENT-CLASS-73-756 ..... c 35 N87-28884 *
US-PATENT-CLASS-73-75 ..... c 35 N85-34373 *
US-PATENT-CLASS-73-761 ..... c 33 N83-16626 *
US-PATENT-CLASS-73-76 ..... c 06 N72-17095 *
US-PATENT-CLASS-73-770 ..... c 39 N79-22537 *
US-PATENT-CLASS-73-781 ..... c 52 N80-27072 *
US-PATENT-CLASS-73-794 ..... c 35 N88-23967 *
US-PATENT-CLASS-73-794 ..... c 24 N91-14430 *
US-PATENT-CLASS-73-799 ..... c 35 N90-23712 *
US-PATENT-CLASS-73-79 ..... c 14 N71-26161 *
US-PATENT-CLASS-73-7 ..... c 25 N86-19413 *
US-PATENT-CLASS-73-801 ..... c 35 N88-23966 *
US-PATENT-CLASS-73-809 ..... c 39 N87-25601 *
US-PATENT-CLASS-73-810 ..... c 39 N79-22537 *
US-PATENT-CLASS-73-810 ..... c 39 N87-25601 *
US-PATENT-CLASS-73-810 ..... c 35 N88-23967 *
US-PATENT-CLASS-73-818 ..... c 35 N83-21312 *
US-PATENT-CLASS-73-818 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-81 ..... c 14 N73-32321 *
US-PATENT-CLASS-73-822 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-826 ..... c 14 N91-27175 *
US-PATENT-CLASS-73-827 ..... c 39 N86-20841 *
US-PATENT-CLASS-73-82 ..... c 43 N79-25443 *
US-PATENT-CLASS-73-82 ..... c 43 N80-14423 *
US-PATENT-CLASS-73-82 ..... c 43 N80-23711 *
US-PATENT-CLASS-73-831 ..... c 35 N85-34375 *
US-PATENT-CLASS-73-831 ..... c 37 N90-20409 *
US-PATENT-CLASS-73-833 ..... c 24 N84-27829 *
US-PATENT-CLASS-73-834 ..... c 37 N88-14361 *
US-PATENT-CLASS-73-845 ..... c 35 N90-23712 *
US-PATENT-CLASS-73-84 ..... c 14 N71-22765 *
US-PATENT-CLASS-73-84 ..... c 14 N73-19420 *
US-PATENT-CLASS-73-84 ..... c 35 N77-27367 *
US-PATENT-CLASS-73-852 ..... c 37 N91-21540 *
US-PATENT-CLASS-73-856 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-856 ..... c 24 N84-27829 *
US-PATENT-CLASS-73-856 ..... c 35 N85-34375 *
US-PATENT-CLASS-73-856 ..... c 09 N87-25334 *
US-PATENT-CLASS-73-85 ..... c 14 N72-33377 *
US-PATENT-CLASS-73-860 ..... c 39 N83-32081 *
US-PATENT-CLASS-73-860 ..... c 37 N90-20409 *
US-PATENT-CLASS-73-861.05 .... c 33 N83-31954 *
US-PATENT-CLASS-73-861.07 .... c 34 N86-12547 *
US-PATENT-CLASS-73-861.58 .... c 35 N86-25752 *
US-PATENT-CLASS-73-861.65 .... c 02 N80-28300 *
US-PATENT-CLASS-73-861.65 .... c 35 N89-14423 *
US-PATENT-CLASS-73-861.66 .... c 02 N80-28300 *
US-PATENT-CLASS-73-861.71 .... c 47 N84-28292 *
US-PATENT-CLASS-73-861 ..... c 34 N81-26402 *
US-PATENT-CLASS-73-862.01 .... c 35 N86-19581 *
US-PATENT-CLASS-73-862.04 .... c 35 N86-32696 *
US-PATENT-CLASS-73-862.08 .... c 54 N82-26987 *
US-PATENT-CLASS-73-862.33 .... c 35 N91-17350 *

US-PATENT-CLASS-73-862.36 .... c 35 N91-17350 *
US-PATENT-CLASS-73-862.54 .... c 37 N83-36482 *
US-PATENT-CLASS-73-862.54 .... c 35 N85-20294 *
US-PATENT-CLASS-73-862.54 .... c 35 N86-19581 *
US-PATENT-CLASS-73-862.61 .... c 35 N86-32696 *
US-PATENT-CLASS-73-862.61 .... c 35 N90-17117 *
US-PATENT-CLASS-73-862.65 .... c 35 N84-28015 *
US-PATENT-CLASS-73-863.11 .... c 35 N83-29650 *
US-PATENT-CLASS-73-863.11 .... c 37 N85-29286 *
US-PATENT-CLASS-73-863.21 .... c 35 N86-26595 *
US-PATENT-CLASS-73-863.22 .... c 51 N91-31755 *
US-PATENT-CLASS-73-863.31 .... c 45 N83-25217 *
US-PATENT-CLASS-73-863.31 .... c 35 N86-26595 *
US-PATENT-CLASS-73-863.41 .... c 51 N91-31755 *
US-PATENT-CLASS-73-863.72 .... c 35 N86-26595 *
US-PATENT-CLASS-73-863.83 .... c 45 N83-25217 *
US-PATENT-CLASS-73-863.85 .... c 51 N91-31755 *
US-PATENT-CLASS-73-863.86 .... c 35 N85-29213 *
US-PATENT-CLASS-73-863.86 .... c 51 N91-31755 *
US-PATENT-CLASS-73-864.34 .... c 35 N86-26595 *
US-PATENT-CLASS-73-864.41 .... c 35 N84-28018 *
US-PATENT-CLASS-73-864.52 .... c 35 N85-29213 *
US-PATENT-CLASS-73-864.63 .... c 45 N83-25217 *
US-PATENT-CLASS-73-864.81 .... c 37 N85-29286 *
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US-PATENT-CLASS-73-865.6 ..... c 14 N91-21176 *
US-PATENT-CLASS-73-866.4 ..... c 14 N91-21176 *
US-PATENT-CLASS-73-86 ..... c 14 N69-39975 * #
US-PATENT-CLASS-73-86 ..... c 33 N71-21586 *
US-PATENT-CLASS-73-86 ..... c 33 N73-27796 *
US-PATENT-CLASS-73-86 ..... c 34 N74-15652 *
US-PATENT-CLASS-73-88.5R ..... c 15 N72-17452 *
US-PATENT-CLASS-73-88.5R ..... c 32 N73-26910 *
US-PATENT-CLASS-73-88.5R ..... c 52 N74-27864 *
US-PATENT-CLASS-73-88.5R ..... c 35 N76-14430 *
US-PATENT-CLASS-73-88.5SD ... c 33 N76-19338 *
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34705 *
US-PATENT-CLASS-73-88.5 ..... c 14 N70-34799 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-17656 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-21091 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-23087 *
US-PATENT-CLASS-73-88.5 ..... c 14 N71-24233 *
US-PATENT-CLASS-73-88.5 ..... c 09 N72-22200 *
US-PATENT-CLASS-73-88.5 ..... c 33 N75-31329 *
US-PATENT-CLASS-73-88.5 ..... c 38 N76-28563 *
US-PATENT-CLASS-73-88A ..... c 32 N73-20740 *
US-PATENT-CLASS-73-88F ..... c 39 N78-15512 *
US-PATENT-CLASS-73-88R ..... c 35 N74-13129 *
US-PATENT-CLASS-73-88R ..... c 35 N77-22449 *
US-PATENT-CLASS-73-88R ..... c 39 N77-28511 *
US-PATENT-CLASS-73-88 ..... c 32 N71-17645 *
US-PATENT-CLASS-73-90 ..... c 32 N70-42003 *
US-PATENT-CLASS-73-90 ..... c 32 N71-25360 *
US-PATENT-CLASS-73-90 ..... c 14 N73-20476 *
US-PATENT-CLASS-73-91 ..... c 14 N73-20476 *
US-PATENT-CLASS-73-91 ..... c 32 N73-26910 *
US-PATENT-CLASS-73-91 ..... c 09 N74-19528 *
US-PATENT-CLASS-73-91 ..... c 39 N78-10493 *
US-PATENT-CLASS-73-94 ..... c 14 N73-32323 *
US-PATENT-CLASS-73-95 ..... c 15 N71-24834 *
US-PATENT-CLASS-73-95 ..... c 14 N72-11364 *
US-PATENT-CLASS-73-95 ..... c 35 N76-18400 *
US-PATENT-CLASS-73-95 ..... c 35 N77-22450 *
US-PATENT-CLASS-73-95 ..... c 31 N79-11246 *
US-PATENT-CLASS-73-97 ..... c 14 N71-15600 *
US-PATENT-CLASS-73-99 ..... c 14 N71-10781 *
US-PATENT-CLASS-73-9 ..... c 14 N71-22995 *
US-PATENT-CLASS-73-9 ..... c 35 N76-31489 *
US-PATENT-CLASS-73-9 ..... c 15 N84-16231 *
US-PATENT-CLASS-74-100R ..... c 37 N78-31426 *
US-PATENT-CLASS-74-100 ..... c 15 N71-24045 *
US-PATENT-CLASS-74-105 ..... c 09 N72-22195 *
US-PATENT-CLASS-74-110 ..... c 44 N83-14693 *
US-PATENT-CLASS-74-126 ..... c 15 N71-21529 *
US-PATENT-CLASS-74-18.1 ..... c 37 N82-24493 *
US-PATENT-CLASS-74-18.2 ..... c 11 N71-27036 *
US-PATENT-CLASS-74-18.2 ..... c 37 N82-24493 *
US-PATENT-CLASS-74-217R ..... c 37 N74-23070 *
US-PATENT-CLASS-74-2 ..... c 15 N71-24600 *
US-PATENT-CLASS-74-2 ..... c 31 N73-14855 *
US-PATENT-CLASS-74-384 ..... c 37 N76-15457 *
US-PATENT-CLASS-74-385 ..... c 07 N78-17056 *
US-PATENT-CLASS-74-409 ..... c 15 N71-21744 *
US-PATENT-CLASS-74-417 ..... c 07 N78-17056 *
US-PATENT-CLASS-74-417 ..... c 37 N81-14318 *
US-PATENT-CLASS-74-417 ..... c 37 N81-17432 *
US-PATENT-CLASS-74-424.8-R .. c 35 N87-21304 *
US-PATENT-CLASS-74-424.8B ... c 37 N85-20338 *
US-PATENT-CLASS-74-424.8VA . c 37 N75-15050 *
US-PATENT-CLASS-74-424.8VA . c 37 N85-20338 *
US-PATENT-CLASS-74-424.8 ..... c 15 N71-26635 *
US-PATENT-CLASS-74-425 ..... c 37 N80-32716 *
US-PATENT-CLASS-74-436 ..... c 37 N75-13266 *
US-PATENT-CLASS-74-441 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-458 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-468 ..... c 15 N71-24984 *

US-PATENT-CLASS-74-468 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-469 ..... c 15 N72-21463 *
US-PATENT-CLASS-74-469 ..... c 15 N72-28495 *
US-PATENT-CLASS-74-471XY .... c 54 N75-27760 *
US-PATENT-CLASS-74-471 ..... c 05 N70-41581 *
US-PATENT-CLASS-74-471 ..... c 03 N70-42073 *
US-PATENT-CLASS-74-471 ..... c 15 N71-20740 *
US-PATENT-CLASS-74-479 ..... c 08 N82-24205 *
US-PATENT-CLASS-74-479 ..... c 37 N91-14616 *
US-PATENT-CLASS-74-480R ..... c 05 N75-12930 *
US-PATENT-CLASS-74-480R ..... c 08 N82-24205 *
US-PATENT-CLASS-74-5.12 ..... c 31 N71-26537 *
US-PATENT-CLASS-74-5.22 ..... c 21 N73-13644 *
US-PATENT-CLASS-74-5.34 ..... c 04 N76-26175 *
US-PATENT-CLASS-74-5.34 ..... c 06 N83-33882 *
US-PATENT-CLASS-74-5.47 ..... c 21 N71-23289 *
US-PATENT-CLASS-74-5.5 ..... c 35 N74-28097 *
US-PATENT-CLASS-74-5.5 ..... c 37 N84-28082 *
US-PATENT-CLASS-74-5.6D ..... c 33 N85-29142 *
US-PATENT-CLASS-74-5.6 ..... c 35 N74-15094 *
US-PATENT-CLASS-74-5.7 ..... c 35 N74-18323 *
US-PATENT-CLASS-74-5.7 ..... c 15 N76-14158 *
US-PATENT-CLASS-74-5F ..... c 15 N73-12488 *
US-PATENT-CLASS-74-501R ..... c 15 N72-22485 *
US-PATENT-CLASS-74-515E ..... c 54 N78-17676 *
US-PATENT-CLASS-74-519 ..... c 03 N70-41954 *
US-PATENT-CLASS-74-519 ..... c 05 N81-19087 *
US-PATENT-CLASS-74-572 ..... c 07 N78-33101 *
US-PATENT-CLASS-74-572 ..... c 37 N79-10422 *
US-PATENT-CLASS-74-572 ..... c 44 N79-14527 *
US-PATENT-CLASS-74-572 ..... c 24 N81-29163 *
US-PATENT-CLASS-74-572 ..... c 35 N89-15379 *
US-PATENT-CLASS-74-573R ..... c 37 N84-28082 *
US-PATENT-CLASS-74-586 ..... c 37 N79-14382 *
US-PATENT-CLASS-74-58 ..... c 35 N84-22928 *
US-PATENT-CLASS-74-594.6 ..... c 37 N74-18127 *
US-PATENT-CLASS-74-594.7 ..... c 37 N74-18127 *
US-PATENT-CLASS-74-63 ..... c 15 N71-17692 *
US-PATENT-CLASS-74-661 ..... c 37 N80-32716 *
US-PATENT-CLASS-74-665B ..... c 37 N76-15457 *
US-PATENT-CLASS-74-665C ..... c 37 N80-32716 *
US-PATENT-CLASS-74-665G ..... c 37 N91-14616 *
US-PATENT-CLASS-74-674 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-675 ..... c 37 N74-27901 *
US-PATENT-CLASS-74-705 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-710 ..... c 37 N74-27901 *
US-PATENT-CLASS-74-753 ..... c 37 N84-28084 *
US-PATENT-CLASS-74-758 ..... c 37 N84-28084 *
US-PATENT-CLASS-74-764 ..... c 37 N79-20377 *
US-PATENT-CLASS-74-800 ..... c 37 N78-17385 *
US-PATENT-CLASS-74-812 ..... c 37 N84-28084 *
US-PATENT-CLASS-74-81 ..... c 37 N78-16369 *
US-PATENT-CLASS-74-820 ..... c 37 N75-13266 *
US-PATENT-CLASS-74-83 ..... c 37 N78-16369 *
US-PATENT-CLASS-74-89.15 ..... c 15 N71-26635 *
US-PATENT-CLASS-74-89.15 ..... c 15 N72-21462 *
US-PATENT-CLASS-74-89.15 ..... c 35 N87-21304 *
US-PATENT-CLASS-74-89.18 ..... c 15 N71-23809 *
US-PATENT-CLASS-74-89 ..... c 37 N81-33483 *
US-PATENT-CLASS-74-96 ..... c 37 N77-22482 *
US-PATENT-CLASS-75-.5B ..... c 17 N72-22530 *
US-PATENT-CLASS-75-DIG.1 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-DIG.1 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-0.5BB .... c 15 N72-25448 *
US-PATENT-CLASS-75-122.7 ..... c 37 N77-19458 *
US-PATENT-CLASS-75-124 ..... c 26 N78-18182 *
US-PATENT-CLASS-75-124 ..... c 26 N80-32484 *
US-PATENT-CLASS-75-126D ..... c 26 N78-18182 *
US-PATENT-CLASS-75-126F ..... c 26 N78-18182 *
US-PATENT-CLASS-75-128G ..... c 26 N78-18182 *
US-PATENT-CLASS-75-128T ..... c 26 N78-18182 *
US-PATENT-CLASS-75-134D ..... c 76 N79-16678 *
US-PATENT-CLASS-75-135 ..... c 18 N73-32437 *
US-PATENT-CLASS-75-135 ..... c 24 N77-27187 *
US-PATENT-CLASS-75-135 ..... c 26 N80-23419 *
US-PATENT-CLASS-75-138 ..... c 26 N80-23419 *
US-PATENT-CLASS-75-139 ..... c 24 N77-27187 *
US-PATENT-CLASS-75-142 ..... c 17 N71-20743 *
US-PATENT-CLASS-75-170 ..... c 17 N71-15644 *
US-PATENT-CLASS-75-170 ..... c 17 N71-16025 *
US-PATENT-CLASS-75-170 ..... c 17 N71-23248 *
US-PATENT-CLASS-75-170 ..... c 17 N72-22535 *
US-PATENT-CLASS-75-170 ..... c 37 N77-19458 *
US-PATENT-CLASS-75-170 ..... c 26 N77-20201 *
US-PATENT-CLASS-75-170 ..... c 26 N77-32279 *
US-PATENT-CLASS-75-170 ..... c 26 N77-32280 *
US-PATENT-CLASS-75-170 ..... c 26 N78-18183 *
US-PATENT-CLASS-75-171 ..... c 17 N70-33283 *
US-PATENT-CLASS-75-171 ..... c 17 N70-36616 *
US-PATENT-CLASS-75-171 ..... c 17 N71-16026 *
US-PATENT-CLASS-75-171 ..... c 17 N73-32415 *
US-PATENT-CLASS-75-172 ..... c 17 N71-23365 *
US-PATENT-CLASS-75-173 ..... c 26 N75-27126 *
US-PATENT-CLASS-75-173 ..... c 26 N75-27127 *
US-PATENT-CLASS-75-178R ..... c 04 N76-20114 *
US-PATENT-CLASS-75-178R ..... c 26 N80-23419 *

US-PATENT-CLASS-75-20F ..... c 15 N72-11387 *
US-PATENT-CLASS-75-200 ..... c 26 N74-10521 *
US-PATENT-CLASS-75-200 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-200 ..... c 24 N75-13032 *
US-PATENT-CLASS-75-200 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-200 ..... c 24 N80-33482 *
US-PATENT-CLASS-75-202 ..... c 17 N71-15468 *
US-PATENT-CLASS-75-203 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-204 ..... c 18 N71-22894 *
US-PATENT-CLASS-75-205 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-206 ..... c 15 N72-25448 *
US-PATENT-CLASS-75-206 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-208R ..... c 37 N75-26371 *
US-PATENT-CLASS-75-208 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-211 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-212 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-212 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-213 ..... c 15 N72-25448 *
US-PATENT-CLASS-75-213 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-214 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-214 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-222 ..... c 28 N70-38197 *
US-PATENT-CLASS-75-222 ..... c 37 N75-26371 *
US-PATENT-CLASS-75-222 ..... c 24 N80-33482 *
US-PATENT-CLASS-75-225 ..... c 34 N76-27515 *
US-PATENT-CLASS-75-226 ..... c 18 N72-25539 *
US-PATENT-CLASS-75-226 ..... c 26 N74-10521 *
US-PATENT-CLASS-75-226 ..... c 37 N74-13179 *
US-PATENT-CLASS-75-226 ..... c 27 N79-14213 *
US-PATENT-CLASS-75-228 ..... c 24 N90-23493 *
US-PATENT-CLASS-75-229 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-239 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-241 ..... c 27 N78-17206 *
US-PATENT-CLASS-75-25 ..... c 28 N81-15119 *
US-PATENT-CLASS-75-331 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-338 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-340 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-342 ..... c 31 N91-32240 *
US-PATENT-CLASS-75-63 ..... c 15 N71-27184 *
US-PATENT-CLASS-75-65R ..... c 24 N77-27187 *
US-PATENT-CLASS-75-66 ..... c 17 N71-26773 *
US-PATENT-CLASS-75-66 ..... c 06 N73-13129 *
US-PATENT-CLASS-75-66 ..... c 17 N73-28573 *
US-PATENT-CLASS-77.5AQ ..... c 27 N81-15104 *
US-PATENT-CLASS-77.5CH ..... c 27 N81-15104 *
US-PATENT-CLASS-78-1 ..... c 15 N70-33330 *
US-PATENT-CLASS-788-704 ..... c 36 N79-18307 *
US-PATENT-CLASS-8-DIG.12 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-DIG.18 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-DIG.9 ..... c 25 N86-25428 *
US-PATENT-CLASS-8-115.5 ..... c 27 N80-26446 *
US-PATENT-CLASS-8-150 ..... c 09 N82-29330 *
US-PATENT-CLASS-8-3 ..... c 51 N77-27677 *
US-PATENT-CLASS-8-94.11 ..... c 51 N77-27677 *
US-PATENT-CLASS-8-94.12 ..... c 18 N71-15545 *
US-PATENT-CLASS-81-119 ..... c 37 N79-14383 *
US-PATENT-CLASS-81-177G ..... c 37 N85-21649 *
US-PATENT-CLASS-81-180B ..... c 37 N79-14383 *
US-PATENT-CLASS-81-3R ..... c 15 N71-29133 *
US-PATENT-CLASS-81-55 ..... c 37 N83-36482 *
US-PATENT-CLASS-81-56 ..... c 37 N76-20480 *
US-PATENT-CLASS-81-57.31 ..... c 37 N76-20480 *
US-PATENT-CLASS-81-57.38 ..... c 15 N73-30457 *
US-PATENT-CLASS-81-57.38 ..... c 37 N83-36482 *
US-PATENT-CLASS-81-63.1 ..... c 15 N71-17805 *
US-PATENT-CLASS-81-9.5R ..... c 37 N79-10419 *
US-PATENT-CLASS-81-90B ..... c 37 N79-14383 *
US-PATENT-CLASS-82-1.2 ..... c 37 N81-14319 *
US-PATENT-CLASS-82-1C ..... c 37 N81-14319 *
US-PATENT-CLASS-82-14 ..... c 15 N71-22722 *
US-PATENT-CLASS-82-24R ..... c 14 N72-16283 *
US-PATENT-CLASS-82-36R ..... c 37 N81-14319 *
US-PATENT-CLASS-82-90 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-152 ..... c 76 N80-18951 *
US-PATENT-CLASS-83-203 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-206 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-277 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-282 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-451 ..... c 37 N77-14478 *
US-PATENT-CLASS-83-452 ..... c 39 N74-13131 *
US-PATENT-CLASS-83-467R ..... c 37 N77-14478 *
US-PATENT-CLASS-83-467 ..... c 15 N71-22798 *
US-PATENT-CLASS-83-522 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-562 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-563 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-588 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-602 ..... c 39 N74-13131 *
US-PATENT-CLASS-83-614 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-649 ..... c 54 N91-26747 *
US-PATENT-CLASS-83-664 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-676 ..... c 37 N85-21650 *
US-PATENT-CLASS-83-820 ..... c 37 N80-29703 *
US-PATENT-CLASS-83-870 ..... c 76 N80-18951 *
US-PATENT-CLASS-83-8 ..... c 15 N72-27485 *
US-PATENT-CLASS-83-917 ..... c 39 N74-13131 *
US-PATENT-CLASS-85-1 ..... c 15 N72-22488 *

US-PATENT-CLASS-85-33 ..... c 15 N71-15922 *
US-PATENT-CLASS-85-33 ..... c 15 N71-21489 *
US-PATENT-CLASS-85-3 ..... c 15 N71-17653 *
US-PATENT-CLASS-85-5B ..... c 15 N72-11385 *
US-PATENT-CLASS-85-7 ..... c 15 N71-23254 *
US-PATENT-CLASS-859R ..... c 27 N81-15104 *
US-PATENT-CLASS-86-1R ..... c 28 N77-10213 *
US-PATENT-CLASS-86-1R ..... c 20 N77-17143 *
US-PATENT-CLASS-86-1 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20.2 ..... c 28 N71-26779 *
US-PATENT-CLASS-86-20R ..... c 20 N77-17143 *
US-PATENT-CLASS-88-14 ..... c 14 N70-34298 *
US-PATENT-CLASS-88-14 ..... c 14 N70-40003 *
US-PATENT-CLASS-88-14 ..... c 14 N70-41946 *
US-PATENT-CLASS-88-14 ..... c 14 N70-41955 *
US-PATENT-CLASS-88-14 ..... c 09 N71-22999 *
US-PATENT-CLASS-88-16 ..... c 14 N70-33254 *
US-PATENT-CLASS-88-1 ..... c 21 N70-35427 *
US-PATENT-CLASS-88-1 ..... c 21 N71-22880 *
US-PATENT-CLASS-88-24 ..... c 23 N71-21882 *
US-PATENT-CLASS-89-1.14 ..... c 37 N87-23983 *
US-PATENT-CLASS-89-1.14 ..... c 37 N90-21390 *
US-PATENT-CLASS-89-1.14 ..... c 37 N91-32498 *
US-PATENT-CLASS-89-1.34 ..... c 03 N91-15142 *
US-PATENT-CLASS-89-1.5G ..... c 08 N82-32373 *
US-PATENT-CLASS-89-1.54 ..... c 05 N87-14314 *
US-PATENT-CLASS-89-1.57 ..... c 37 N85-30334 *
US-PATENT-CLASS-89-1.57 ..... c 37 N90-21390 *
US-PATENT-CLASS-89-1.57 ..... c 37 N91-32498 *
US-PATENT-CLASS-89-1.5 ..... c 31 N71-15675 *
US-PATENT-CLASS-89-1.5 ..... c 15 N71-24600 *
US-PATENT-CLASS-89-1.7 ..... c 11 N70-38202 *
US-PATENT-CLASS-89-1.7 ..... c 30 N70-40353 *
US-PATENT-CLASS-89-1.7 ..... c 03 N71-12258 *
US-PATENT-CLASS-89-1.7 ..... c 03 N71-12259 *
US-PATENT-CLASS-89-1.801 ..... c 20 N76-22296 *
US-PATENT-CLASS-89-1.806 ..... c 15 N71-24043 *
US-PATENT-CLASS-89-1.811 ..... c 15 N72-17455 *
US-PATENT-CLASS-89-1B ..... c 01 N83-35992 *
US-PATENT-CLASS-89-1 ..... c 03 N70-34667 *
US-PATENT-CLASS-89-1 ..... c 15 N71-16078 *
US-PATENT-CLASS-89-36.02 ..... c 24 N90-21822 *
US-PATENT-CLASS-89-8 ..... c 11 N71-18578 *
US-PATENT-CLASS-89-8 ..... c 11 N73-32152 *
US-PATENT-CLASS-89-8 ..... c 75 N76-14931 *
US-PATENT-CLASS-89-8 ..... c 75 N76-17951 *
US-PATENT-CLASS-89-8 ..... c 09 N79-21084 *
US-PATENT-CLASS-9-11A ..... c 02 N73-26006 *
US-PATENT-CLASS-9-11A ..... c 54 N74-14845 *
US-PATENT-CLASS-9-11 ..... c 05 N70-34857 *
US-PATENT-CLASS-9-2A ..... c 02 N73-26006 *
US-PATENT-CLASS-9-312 ..... c 05 N71-22748 *
US-PATENT-CLASS-9-316 ..... c 05 N70-36493 *
US-PATENT-CLASS-9-3 ..... c 02 N73-26006 *
US-PATENT-CLASS-9-8 ..... c 03 N70-36778 *
US-PATENT-CLASS-9-9 ..... c 15 N71-24600 *
US-PATENT-CLASS-90-11 ..... c 15 N71-33518 *
US-PATENT-CLASS-90-12.5 ..... c 37 N74-25968 *
US-PATENT-CLASS-90-12 ..... c 15 N71-22799 *
US-PATENT-CLASS-901-19 ..... c 33 N91-31528 *
US-PATENT-CLASS-901-1 ..... c 18 N88-23828 *
US-PATENT-CLASS-901-25 ..... c 37 N86-20789 *
US-PATENT-CLASS-901-28 ..... c 37 N91-17388 *
US-PATENT-CLASS-901-30 ..... c 37 N91-31656 *
US-PATENT-CLASS-901-31 ..... c 37 N86-19603 *
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US-PATENT-CLASS-901-33 ..... c 18 N88-23828 *
US-PATENT-CLASS-901-33 ..... c 37 N91-21542 *
US-PATENT-CLASS-901-37 ..... c 37 N91-21542 *
US-PATENT-CLASS-901-38 ..... c 37 N90-20408 *
US-PATENT-CLASS-901-38 ..... c 37 N91-14615 *
US-PATENT-CLASS-901-39 ..... c 37 N90-20408 *
US-PATENT-CLASS-901-39 ..... c 37 N91-14615 *
US-PATENT-CLASS-901-42 ..... c 37 N86-21850 *
US-PATENT-CLASS-901-47 ..... c 37 N86-21850 *
US-PATENT-CLASS-901-47 ..... c 37 N91-21542 *
US-PATENT-CLASS-901-50 ..... c 37 N86-19603 *
US-PATENT-CLASS-901-9 ..... c 37 N91-21544 *
US-PATENT-CLASS-91-186 ..... c 05 N73-32014 *
US-PATENT-CLASS-91-325 ..... c 37 N81-32510 *
US-PATENT-CLASS-91-341R ..... c 37 N81-32510 *
US-PATENT-CLASS-91-361 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-363A ..... c 15 N73-13466 *
US-PATENT-CLASS-91-390 ..... c 15 N71-27147 *
US-PATENT-CLASS-91-390 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-410 ..... c 37 N81-32510 *
US-PATENT-CLASS-91-448 ..... c 15 N71-27754 *
US-PATENT-CLASS-91-448 ..... c 15 N73-13466 *
US-PATENT-CLASS-91-461 ..... c 15 N71-27147 *
US-PATENT-CLASS-92-103F ..... c 35 N91-21494 *
US-PATENT-CLASS-92-103SD .... c 35 N91-21494 *
US-PATENT-CLASS-92-130R ..... c 37 N81-33483 *
US-PATENT-CLASS-92-176 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-208 ..... c 24 N87-27742 * #
US-PATENT-CLASS-92-212 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-212 ..... c 37 N90-22042 *

US-PATENT-CLASS-92-213 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-214 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-222 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-222 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-224 ..... c 37 N88-23981 *
US-PATENT-CLASS-92-248 ..... c 37 N90-22042 *
US-PATENT-CLASS-92-37 ..... c 37 N82-24493 *
US-PATENT-CLASS-92-49 ..... c 14 N73-13418 *
US-PATENT-CLASS-92-94 ..... c 32 N70-41370 *
US-PATENT-CLASS-92-98R ..... c 31 N85-21404 *
US-PATENT-CLASS-93-1 ..... c 15 N70-33180 *
US-PATENT-CLASS-94.9N ..... c 27 N81-15104 *
US-PATENT-CLASS-95-1.1 ..... c 14 N72-18411 *
US-PATENT-CLASS-95-1.1 ..... c 14 N73-26431 *
US-PATENT-CLASS-95-11.5R ..... c 14 N73-19419 *
US-PATENT-CLASS-95-11.5 ..... c 14 N73-32319 *
US-PATENT-CLASS-95-11R ..... c 14 N73-19419 *
US-PATENT-CLASS-95-11 ..... c 14 N71-18465 *
US-PATENT-CLASS-95-11 ..... c 16 N71-33410 *
US-PATENT-CLASS-95-11 ..... c 14 N73-32319 *
US-PATENT-CLASS-95-12.5 ..... c 31 N72-25842 *
US-PATENT-CLASS-95-12.5 ..... c 14 N73-14427 *
US-PATENT-CLASS-95-12 ..... c 14 N73-33361 *
US-PATENT-CLASS-95-18 ..... c 14 N72-20380 *
US-PATENT-CLASS-95-42 ..... c 14 N73-32322 *
US-PATENT-CLASS-95-44 ..... c 14 N71-26474 *
US-PATENT-CLASS-95-53EA ..... c 33 N74-20861 *
US-PATENT-CLASS-95-53 ..... c 15 N71-21060 *
US-PATENT-CLASS-95-58 ..... c 14 N70-40273 *
US-PATENT-CLASS-95-59 ..... c 14 N73-14427 *
US-PATENT-CLASS-95-89R ..... c 35 N74-15831 *
US-PATENT-CLASS-96-27R ..... c 35 N79-10389 *
US-PATENT-CLASS-96-36.2 ..... c 06 N72-21094 *
US-PATENT-CLASS-96-36.2 ..... c 15 N72-25452 *
US-PATENT-CLASS-96-38.3 ..... c 35 N74-26946 *
US-PATENT-CLASS-96-49 ..... c 14 N71-17574 *
US-PATENT-CLASS-96-60R ..... c 35 N79-10389 *
US-PATENT-CLASS-96-79 ..... c 35 N74-26946 *
US-PATENT-CLASS-96-87A ..... c 27 N78-14164 *
US-PATENT-CLASS-96-90PC ..... c 14 N72-22443 *
US-PATENT-CLASS-98-1.5 ..... c 44 N78-32539 *
US-PATENT-CLASS-98-1 ..... c 54 N78-17679 *
US-PATENT-CLASS-98-39 ..... c 31 N74-27902 *
US-PATENT-CLASS-99-80PS ..... c 05 N72-33096 *

US-PATENT-DES-228,688 ..... c 05 N74-10907 *

US-PATENT-RE-26,548 ..... c 07 N71-12389 *
US-PATENT-RE-28,921 ..... c 52 N76-30793 *

US-PATENT-2,837,706 ..... c 15 N71-28952 *
US-PATENT-2,898,889 ..... c 02 N71-29128 *
US-PATENT-2,903,307 ..... c 15 N71-29136 *
US-PATENT-2,926,123 ..... c 33 N71-29151 *
US-PATENT-2,934,331 ..... c 15 N70-33382 *
US-PATENT-2,940,259 ..... c 28 N70-33241 *
US-PATENT-2,944,316 ..... c 15 N71-16076 *
US-PATENT-2,945,667 ..... c 15 N70-33376 *
US-PATENT-2,956,772 ..... c 33 N71-29152 *
US-PATENT-2,960,002 ..... c 14 N70-41946 *
US-PATENT-2,971,837 ..... c 17 N70-33283 *
US-PATENT-2,974,925 ..... c 28 N70-33372 *
US-PATENT-2,984,735 ..... c 11 N70-33329 *
US-PATENT-2,991,671 ..... c 15 N70-33330 *
US-PATENT-2,991,961 ..... c 02 N70-33332 *
US-PATENT-2,996,212 ..... c 31 N71-17680 *
US-PATENT-2,997,274 ..... c 28 N71-29154 *
US-PATENT-3,001,363 ..... c 28 N70-33331 *
US-PATENT-3,001,395 ..... c 14 N70-33386 *
US-PATENT-3,001,739 ..... c 03 N70-33343 *
US-PATENT-3,004,189 ..... c 37 N75-29426 *
US-PATENT-3,004,735 ..... c 14 N70-33322 *
US-PATENT-3,005,081 ..... c 09 N70-33312 *
US-PATENT-3,005,339 ..... c 11 N70-33287 *
US-PATENT-3,008,229 ..... c 15 N70-33311 *
US-PATENT-3,010,372 ..... c 15 N70-33180 *
US-PATENT-3,011,760 ..... c 15 N70-33226 *
US-PATENT-3,012,400 ..... c 28 N70-33374 *
US-PATENT-3,012,407 ..... c 15 N70-33323 *
US-PATENT-3,016,693 ..... c 28 N70-33356 *
US-PATENT-3,016,863 ..... c 12 N70-33305 *
US-PATENT-3,022,672 ..... c 14 N70-34816 *
US-PATENT-3,024,659 ..... c 14 N70-34820 *
US-PATENT-3,028,122 ..... c 02 N70-33286 *
US-PATENT-3,028,126 ..... c 21 N70-33279 *
US-PATENT-3,028,128 ..... c 31 N70-33242 *
US-PATENT-3,035,333 ..... c 28 N70-41818 *
US-PATENT-3,038,077 ..... c 21 N70-33181 *
US-PATENT-3,038,175 ..... c 05 N70-33285 *
US-PATENT-3,041,587 ..... c 14 N70-33179 *
US-PATENT-3,041,924 ..... c 14 N70-33254 *
US-PATENT-3,045,424 ..... c 28 N70-40367 *
US-PATENT-3,049,876 ..... c 28 N70-33284 *
US-PATENT-3,053,484 ..... c 02 N70-33255 *
US-PATENT-3,057,597 ..... c 15 N70-33264 *
US-PATENT-3,059,220 ..... c 09 N70-33182 *
US-PATENT-3,063,291 ..... c 11 N70-33278 *
US-PATENT-3,064,928 ..... c 02 N70-33266 *
US-PATENT-3,067,573 ..... c 28 N70-39899 *
US-PATENT-3,068,658 ..... c 15 N70-34247 *
US-PATENT-3,069,123 ..... c 14 N70-39898 *
US-PATENT-3,070,330 ..... c 21 N70-34539 *
US-PATENT-3,070,349 ..... c 28 N70-39895 *
US-PATENT-3,070,407 ..... c 15 N70-39896 *
US-PATENT-3,072,574 ..... c 18 N70-39897 *
US-PATENT-3,076,065 ..... c 09 N70-39915 *
US-PATENT-3,077,599 ..... c 07 N70-40202 *
US-PATENT-3,079,113 ..... c 02 N70-38009 *
US-PATENT-3,080,711 ..... c 28 N70-38711 *
US-PATENT-3,083,611 ..... c 21 N70-35427 *
US-PATENT-3,084,421 ..... c 17 N70-38490 *
US-PATENT-3,085,165 ..... c 09 N70-34819 *
US-PATENT-3,087,692 ..... c 02 N70-34178 *
US-PATENT-3,088,441 ..... c 15 N70-35409 *
US-PATENT-3,090,212 ..... c 33 N70-37979 *
US-PATENT-3,090,580 ..... c 31 N70-37924 *
US-PATENT-3,093,000 ..... c 15 N70-37925 *
US-PATENT-3,093,346 ..... c 31 N70-37938 *
US-PATENT-3,098,630 ..... c 02 N70-37939 *
US-PATENT-3,100,294 ..... c 09 N70-38998 *
US-PATENT-3,100,990 ..... c 14 N70-34813 *
US-PATENT-3,102,948 ..... c 15 N70-34814 *
US-PATENT-3,104,079 ..... c 31 N70-37986 *
US-PATENT-3,104,082 ..... c 02 N70-38011 *
US-PATENT-3,105,515 ..... c 15 N70-38603 *
US-PATENT-3,106,603 ..... c 09 N70-38201 *
US-PATENT-3,108,171 ..... c 33 N70-34812 *
US-PATENT-3,110,318 ..... c 12 N70-38997 *
US-PATENT-3,112,672 ..... c 11 N70-38202 *
US-PATENT-3,115,630 ..... c 31 N70-37981 *
US-PATENT-3,118,100 ..... c 03 N71-29129 *
US-PATENT-3,119,086 ..... c 35 N79-33449 *
US-PATENT-3,119,232 ..... c 28 N70-37980 *
US-PATENT-3,120,101 ..... c 28 N70-34860 *
US-PATENT-3,120,361 ..... c 31 N70-38010 *
US-PATENT-3,120,738 ..... c 28 N70-38249 *
US-PATENT-3,121,309 ..... c 28 N70-35381 *
US-PATENT-3,122,000 ..... c 15 N70-38020 *
US-PATENT-3,122,098 ..... c 28 N70-38181 *
US-PATENT-3,122,885 ..... c 28 N70-38710 *
US-PATENT-3,123,248 ..... c 11 N70-38182 *
US-PATENT-3,123,418 ..... c 37 N79-33467 *
US-PATENT-3,123,692 ..... c 33 N79-33393 *
US-PATENT-3,127,157 ..... c 15 N70-38225 *
US-PATENT-3,128,389 ..... c 09 N70-38604 *
US-PATENT-3,128,845 ..... c 15 N70-38601 *
US-PATENT-3,130,940 ..... c 33 N70-33344 *
US-PATENT-3,131,040 ..... c 37 N79-21345 *
US-PATENT-3,132,342 ..... c 07 N70-38200 *
US-PATENT-3,132,476 ..... c 28 N70-34294 *
US-PATENT-3,132,479 ..... c 15 N71-28951 *
US-PATENT-3,132,903 ..... c 15 N70-38620 *
US-PATENT-3,134,389 ..... c 37 N79-33468 *
US-PATENT-3,135,089 ..... c 28 N70-38504 *
US-PATENT-3,135,090 ..... c 28 N70-38505 *
US-PATENT-3,136,123 ..... c 28 N70-38199 *
US-PATENT-3,138,837 ..... c 17 N70-38198 *
US-PATENT-3,139,725 ..... c 28 N70-38645 *
US-PATENT-3,140,728 ..... c 15 N70-36908 *
US-PATENT-3,141,340 ..... c 11 N70-38196 *
US-PATENT-3,141,769 ..... c 28 N70-38197 *
US-PATENT-3,141,932 ..... c 03 N70-38713 *
US-PATENT-3,143,321 ..... c 15 N70-34850 *
US-PATENT-3,143,651 ..... c 14 N70-40240 *
US-PATENT-3,144,219 ..... c 31 N70-38676 *
US-PATENT-3,144,999 ..... c 02 N70-34856 *
US-PATENT-3,145,874 ..... c 11 N71-15960 *
US-PATENT-3,147,422 ..... c 09 N70-38712 *
US-PATENT-3,149,897 ..... c 09 N70-36494 *
US-PATENT-3,150,329 ..... c 09 N70-38995 *
US-PATENT-3,150,387 ..... c 03 N70-36778 *
US-PATENT-3,152,344 ..... c 05 N70-36493 *
US-PATENT-3,155,992 ..... c 05 N70-34857 *
US-PATENT-3,156,090 ..... c 28 N70-37245 *
US-PATENT-3,157,529 ..... c 18 N70-36400 *
US-PATENT-3,158,172 ..... c 15 N70-34817 *
US-PATENT-3,158,336 ..... c 31 N70-36410 *
US-PATENT-3,158,764 ..... c 03 N70-36803 *
US-PATENT-3,159,967 ..... c 28 N70-36802 *
US-PATENT-3,160,825 ..... c 14 N70-35220 *
US-PATENT-3,160,950 ..... c 15 N70-36409 *
US-PATENT-3,162,012 ..... c 15 N70-36411 *
US-PATENT-3,163,935 ..... c 14 N70-36907 *
US-PATENT-3,164,222 ..... c 15 N70-34861 *
US-PATENT-3,164,369 ..... c 15 N70-36412 *
US-PATENT-3,165,356 ..... c 05 N70-35152 *
US-PATENT-3,166,834 ..... c 15 N70-36901 *
US-PATENT-3,167,426 ..... c 17 N70-36616 *
US-PATENT-3,168,827 ..... c 14 N70-36807 *
US-PATENT-3,169,001 ..... c 02 N70-36825 *
US-PATENT-3,169,613 ..... c 15 N70-36947 *
US-PATENT-3,169,725 ..... c 31 N70-34296 *
US-PATENT-3,170,286 ..... c 15 N70-36535 *
US-PATENT-3,170,290 ..... c 28 N70-36910 *
US-PATENT-3,170,295 ..... c 27 N71-28929 *
US-PATENT-3,170,324 ..... c 14 N70-36824 *
US-PATENT-3,170,471 ..... c 32 N70-36536 *
US-PATENT-3,170,486 ..... c 15 N70-36492 *
US-PATENT-3,170,605 ..... c 15 N70-38996 *
US-PATENT-3,170,657 ..... c 02 N70-34858 *
US-PATENT-3,170,660 ..... c 02 N70-36804 *
US-PATENT-3,170,773 ..... c 17 N70-33288 *
US-PATENT-3,171,060 ..... c 25 N70-33267 *
US-PATENT-3,171,081 ..... c 14 N70-35666 *
US-PATENT-3,172,097 ..... c 08 N70-35423 *
US-PATENT-3,173,246 ..... c 28 N70-33265 *
US-PATENT-3,173,251 ..... c 28 N70-33375 *
US-PATENT-3,173,801 ..... c 32 N79-19186 *
US-PATENT-3,174,278 ..... c 25 N70-36946 *
US-PATENT-3,174,279 ..... c 28 N70-36806 *
US-PATENT-3,174,827 ..... c 26 N70-36805 *
US-PATENT-3,175,789 ..... c 31 N70-36654 *
US-PATENT-3,176,222 ..... c 14 N70-36618 *
US-PATENT-3,176,499 ..... c 14 N70-35368 *
US-PATENT-3,176,933 ..... c 33 N70-36617 *
US-PATENT-3,177,933 ..... c 33 N70-36847 *
US-PATENT-3,178,883 ..... c 21 N70-36938 *
US-PATENT-3,180,264 ..... c 33 N70-36846 *
US-PATENT-3,180,587 ..... c 21 N70-36943 *
US-PATENT-3,181,821 ..... c 31 N70-36845 *
US-PATENT-3,182,496 ..... c 11 N70-36913 *
US-PATENT-3,183,506 ..... c 07 N70-36911 *
US-PATENT-3,185,023 ..... c 14 N70-34298 *
US-PATENT-3,187,583 ..... c 11 N70-38675 *
US-PATENT-3,188,472 ..... c 21 N70-34297 *
US-PATENT-3,188,844 ..... c 15 N70-34249 *
US-PATENT-3,189,299 ..... c 21 N70-34295 *
US-PATENT-3,189,535 ..... c 15 N70-34967 *
US-PATENT-3,189,726 ..... c 33 N70-34545 *
US-PATENT-3,189,784 ..... c 33 N75-27250 *
US-PATENT-3,189,794 ..... c 09 N70-34502 *
US-PATENT-3,189,864 ..... c 09 N70-34596 *
US-PATENT-3,190,124 ..... c 35 N79-33450 *
US-PATENT-3,191,316 ..... c 31 N70-34966 *
US-PATENT-3,191,379 ..... c 27 N70-35534 *
US-PATENT-3,191,907 ..... c 15 N70-34859 *
US-PATENT-3,192,730 ..... c 06 N70-34946 *
US-PATENT-3,193,883 ..... c 27 N70-34783 *
US-PATENT-3,194,060 ..... c 14 N70-34794 *
US-PATENT-3,194,525 ..... c 11 N70-35383 *
US-PATENT-3,194,951 ..... c 08 N70-34778 *
US-PATENT-3,196,261 ..... c 08 N70-34787 *
US-PATENT-3,196,362 ..... c 09 N70-35440 *
US-PATENT-3,196,557 ..... c 11 N70-34815 *
US-PATENT-3,196,558 ..... c 14 N70-35394 *
US-PATENT-3,196,598 ..... c 28 N70-34788 *
US-PATENT-3,196,675 ..... c 14 N70-34818 *
US-PATENT-3,196,690 ..... c 11 N70-34786 *
US-PATENT-3,197,616 ..... c 14 N71-28958 *
US-PATENT-3,198,955 ..... c 08 N70-34743 *
US-PATENT-3,198,994 ..... c 26 N73-28710 *
US-PATENT-3,199,340 ..... c 14 N70-34799 *
US-PATENT-3,199,343 ..... c 11 N70-34844 *
US-PATENT-3,199,931 ..... c 15 N70-34664 *
US-PATENT-3,200,706 ..... c 03 N70-34667 *
US-PATENT-3,201,560 ..... c 33 N70-34540 *
US-PATENT-3,201,635 ..... c 25 N70-34661 *
US-PATENT-3,201,980 ..... c 14 N70-40203 *
US-PATENT-3,202,381 ..... c 31 N70-34176 *
US-PATENT-3,202,398 ..... c 28 N71-28928 *
US-PATENT-3,202,844 ..... c 03 N70-34134 *
US-PATENT-3,202,915 ..... c 14 N70-38602 *
US-PATENT-3,202,998 ..... c 31 N70-34135 *
US-PATENT-3,204,447 ..... c 14 N70-34156 *
US-PATENT-3,204,889 ..... c 03 N70-34157 *
US-PATENT-3,205,361 ..... c 14 N70-34158 *
US-PATENT-3,205,362 ..... c 21 N70-35089 *
US-PATENT-3,205,381 ..... c 03 N70-35408 *
US-PATENT-3,206,141 ..... c 21 N70-35395 *
US-PATENT-3,206,897 ..... c 18 N75-27040 *
US-PATENT-3,208,215 ..... c 28 N70-34162 *
US-PATENT-3,208,272 ..... c 14 N70-34161 *
US-PATENT-3,208,694 ..... c 02 N70-34160 *
US-PATENT-3,208,707 ..... c 31 N70-34159 *
US-PATENT-3,209,360 ..... c 09 N70-35219 *
US-PATENT-3,209,361 ..... c 09 N70-35425 *
US-PATENT-3,210,927 ..... c 28 N70-34175 *
US-PATENT-3,211,169 ..... c 15 N70-35087 *
US-PATENT-3,211,414 ..... c 15 N70-35407 *
US-PATENT-3,212,096 ..... c 09 N70-35382 *
US-PATENT-3,212,259 ..... c 28 N71-29153 *
US-PATENT-3,212,325 ..... c 14 N70-34705 *
US-PATENT-3,212,564 ..... c 33 N71-29052 *
US-PATENT-3,215,313 ..... c 31 N79-21225 *
US-PATENT-3,215,572 ..... c 12 N70-40124 *
US-PATENT-3,216,007 ..... c 08 N70-40125 *
US-PATENT-3,217,624 ..... c 14 N70-40273 *
US-PATENT-3,218,479 ..... c 09 N70-40272 *

US-PATENT-3,218,547 ..... c 09 N70-40123 *
US-PATENT-3,218,850 ..... c 14 N70-40400 *
US-PATENT-3,219,250 ..... c 15 N70-40204 *
US-PATENT-3,219,365 ..... c 15 N71-28937 *
US-PATENT-3,219,997 ..... c 08 N73-28045 *
US-PATENT-3,220,004 ..... c 30 N70-40309 *
US-PATENT-3,221,547 ..... c 14 N70-40201 *
US-PATENT-3,221,549 ..... c 14 N70-40157 *
US-PATENT-3,223,374 ..... c 15 N70-40156 *
US-PATENT-3,224,001 ..... c 07 N70-40063 *
US-PATENT-3,224,173 ..... c 15 N70-40062 *
US-PATENT-3,224,263 ..... c 15 N70-40180 *
US-PATENT-3,224,336 ..... c 30 N70-40353 *
US-PATENT-3,224,337 ..... c 09 N79-21084 *
US-PATENT-3,228,492 ..... c 15 N70-40354 *
US-PATENT-3,228,558 ..... c 14 N70-40233 *
US-PATENT-3,229,099 ..... c 14 N70-40238 *
US-PATENT-3,229,102 ..... c 14 N70-40239 *
US-PATENT-3,229,139 ..... c 28 N70-39925 *
US-PATENT-3,229,155 ..... c 25 N70-41628 *
US-PATENT-3,229,463 ..... c 28 N70-39931 *
US-PATENT-3,229,568 ..... c 14 N70-40003 *
US-PATENT-3,229,636 ..... c 03 N70-39930 *
US-PATENT-3,229,682 ..... c 09 N70-40234 *
US-PATENT-3,229,689 ..... c 05 N70-39922 *
US-PATENT-3,229,884 ..... c 15 N70-39924 *
US-PATENT-3,229,905 ..... c 04 N78-17031 *
US-PATENT-3,229,930 ..... c 30 N70-40016 *
US-PATENT-3,230,053 ..... c 26 N70-40015 *
US-PATENT-3,233,862 ..... c 37 N79-33469 *
US-PATENT-3,236,066 ..... c 15 N71-28959 *
US-PATENT-3,237,253 ..... c 15 N71-15966 *
US-PATENT-3,238,345 ..... c 11 N71-15925 *
US-PATENT-3,238,413 ..... c 25 N71-29184 *
US-PATENT-3,238,715 ..... c 28 N71-14043 *
US-PATENT-3,238,730 ..... c 03 N71-12260 *
US-PATENT-3,238,774 ..... c 14 N71-14996 *
US-PATENT-3,238,777 ..... c 14 N71-15598 *
US-PATENT-3,239,660 ..... c 23 N71-30292 *
US-PATENT-3,242,716 ..... c 14 N71-15992 *
US-PATENT-3,243,154 ..... c 23 N71-15673 *
US-PATENT-3,243,791 ..... c 07 N71-11298 *
US-PATENT-3,244,943 ..... c 15 N73-28516 *
US-PATENT-3,249,012 ..... c 03 N71-12258 *
US-PATENT-3,249,013 ..... c 03 N71-12259 *
US-PATENT-3,251,053 ..... c 08 N71-12501 *
US-PATENT-3,252,100 ..... c 10 N71-28960 *
US-PATENT-3,254,395 ..... c 28 N71-15658 *
US-PATENT-3,254,487 ..... c 28 N71-15659 *
US-PATENT-3,257,780 ..... c 15 N71-15968 *
US-PATENT-3,258,582 ..... c 02 N71-13421 *
US-PATENT-3,258,687 ..... c 14 N71-15962 *
US-PATENT-3,258,831 ..... c 15 N71-15986 *
US-PATENT-3,258,912 ..... c 27 N71-15634 *
US-PATENT-3,258,918 ..... c 27 N71-15635 *
US-PATENT-3,260,055 ..... c 23 N71-15467 *
US-PATENT-3,260,204 ..... c 31 N71-15692 *
US-PATENT-3,260,326 ..... c 11 N71-28779 *
US-PATENT-3,261,210 ..... c 14 N71-15969 *
US-PATENT-3,262,025 ..... c 15 N73-32361 *
US-PATENT-3,262,186 ..... c 15 N71-16052 *
US-PATENT-3,262,262 ..... c 28 N71-15661 *
US-PATENT-3,262,351 ..... c 15 N71-15922 *
US-PATENT-3,262,365 ..... c 31 N71-15675 *
US-PATENT-3,262,395 ..... c 15 N71-30028 *
US-PATENT-3,262,518 ..... c 05 N71-11199 *
US-PATENT-3,262,655 ..... c 31 N71-15663 *
US-PATENT-3,262,694 ..... c 44 N79-19447 *
US-PATENT-3,263,016 ..... c 33 N71-15625 *
US-PATENT-3,263,171 ..... c 09 N71-13530 *
US-PATENT-3,263,610 ..... c 15 N71-13789 *
US-PATENT-3,264,135 ..... c 15 N71-16075 *
US-PATENT-3,270,441 ..... c 11 N71-16028 *
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US-PATENT-3,270,501 ..... c 31 N71-15647 *
US-PATENT-3,270,503 ..... c 33 N71-15623 *
US-PATENT-3,270,504 ..... c 31 N71-15637 *
US-PATENT-3,270,505 ..... c 21 N71-15582 *
US-PATENT-3,270,512 ..... c 15 N71-15906 *
US-PATENT-3,270,565 ..... c 14 N71-30265 *
US-PATENT-3,270,756 ..... c 15 N71-15967 *
US-PATENT-3,270,802 ..... c 33 N71-24876 *
US-PATENT-3,270,835 ..... c 28 N70-41582 *
US-PATENT-3,270,908 ..... c 31 N71-15664 *
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US-PATENT-3,270,986 ..... c 05 N71-12336 *
US-PATENT-3,270,988 ..... c 01 N71-13410 *
US-PATENT-3,270,989 ..... c 02 N71-11041 * #
US-PATENT-3,270,990 ..... c 28 N71-15563 *
US-PATENT-3,271,140 ..... c 17 N71-15644 *
US-PATENT-3,271,181 ..... c 15 N71-16077 *
US-PATENT-3,271,532 ..... c 09 N71-16089 *
US-PATENT-3,271,558 ..... c 15 N71-15871 *
US-PATENT-3,271,594 ..... c 10 N71-28739 *
US-PATENT-3,271,620 ..... c 09 N71-12540 *
US-PATENT-3,271,637 ..... c 26 N71-18064 *
US-PATENT-3,271,649 ..... c 10 N71-16030 *
US-PATENT-3,273,094 ..... c 23 N71-29049 *
US-PATENT-3,273,355 ..... c 33 N71-17897 *
US-PATENT-3,273,381 ..... c 32 N71-17645 *
US-PATENT-3,273,388 ..... c 09 N71-16086 *
US-PATENT-3,273,392 ..... c 23 N71-17802 *
US-PATENT-3,273,399 ..... c 12 N71-24692 *
US-PATENT-3,274,304 ..... c 26 N71-17818 *
US-PATENT-3,275,794 ..... c 37 N75-27376 *
US-PATENT-3,276,251 ..... c 11 N71-15926 *
US-PATENT-3,276,376 ..... c 31 N71-17629 *
US-PATENT-3,276,602 ..... c 32 N71-17609 *
US-PATENT-3,276,679 ..... c 15 N71-16079 *
US-PATENT-3,276,722 ..... c 02 N71-16087 *
US-PATENT-3,276,726 ..... c 31 N71-16081 *
US-PATENT-3,276,865 ..... c 17 N71-16025 *
US-PATENT-3,276,866 ..... c 17 N71-16026 *
US-PATENT-3,276,946 ..... c 23 N71-15978 *
US-PATENT-3,277,314 ..... c 10 N71-16042 *
US-PATENT-3,277,366 ..... c 10 N71-16057 *
US-PATENT-3,277,373 ..... c 07 N71-16088 *
US-PATENT-3,277,375 ..... c 07 N71-11284 *
US-PATENT-3,277,458 ..... c 10 N71-16058 *
US-PATENT-3,277,486 ..... c 31 N71-10747 *
US-PATENT-3,279,193 ..... c 33 N71-28852 *
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US-PATENT-3,281,963 ..... c 11 N71-10746 *
US-PATENT-3,281,964 ..... c 11 N71-10776 *
US-PATENT-3,281,965 ..... c 11 N71-10748 *
US-PATENT-3,282,035 ..... c 11 N71-10777 *
US-PATENT-3,282,091 ..... c 14 N71-10781 *
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US-PATENT-3,282,541 ..... c 31 N71-24750 *
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US-PATENT-3,282,740 ..... c 03 N71-11051 *
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US-PATENT-3,283,175 ..... c 10 N71-15910 *
US-PATENT-3,283,241 ..... c 14 N71-16014 *
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US-PATENT-3,286,531 ..... c 30 N71-17788 *
US-PATENT-3,286,629 ..... c 31 N71-17730 *
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US-PATENT-3,286,882 ..... c 27 N71-29155 *
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US-PATENT-3,286,957 ..... c 02 N70-41863 *
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US-PATENT-3,287,496 ..... c 14 N70-41807 *
US-PATENT-3,287,582 ..... c 28 N70-41576 *
US-PATENT-3,287,640 ..... c 09 N70-41655 *
US-PATENT-3,287,660 ..... c 16 N70-41578 *
US-PATENT-3,287,725 ..... c 07 N70-41680 *
US-PATENT-3,289,205 ..... c 07 N70-41678 *
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US-PATENT-3,295,377 ..... c 14 N70-41682 *
US-PATENT-3,295,386 ..... c 05 N70-41581 *
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US-PATENT-3,295,556 ..... c 32 N70-41579 *
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US-PATENT-3,295,684 ..... c 28 N70-41447 *
US-PATENT-3,295,699 ..... c 32 N70-41367 *
US-PATENT-3,295,782 ..... c 14 N70-41647 *
US-PATENT-3,295,790 ..... c 31 N70-41588 *
US-PATENT-3,295,798 ..... c 02 N70-41589 *
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US-PATENT-3,296,526 ..... c 14 N70-41332 *
US-PATENT-3,296,531 ..... c 07 N70-41331 *
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US-PATENT-3,298,182 ..... c 28 N70-41311 *
US-PATENT-3,298,221 ..... c 14 N70-41330 *
US-PATENT-3,298,285 ..... c 32 N70-41370 *
US-PATENT-3,298,362 ..... c 05 N70-41329 *
US-PATENT-3,298,582 ..... c 14 N71-28935 *
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US-PATENT-3,299,431 ..... c 07 N71-28979 *
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US-PATENT-3,300,731 ..... c 07 N70-41372 *
US-PATENT-3,300,847 ..... c 15 N70-41371 *
US-PATENT-3,300,949 ..... c 05 N70-41297 *
US-PATENT-3,300,981 ..... c 28 N70-41275 *
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US-PATENT-3,301,507 ..... c 31 N70-41631 *
US-PATENT-3,301,511 ..... c 02 N70-41630 *
US-PATENT-3,301,578 ..... c 15 N70-41629 *
US-PATENT-3,302,023 ..... c 14 N70-41676 *
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US-PATENT-3,302,960 ..... c 15 N70-41829 *
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US-PATENT-3,304,718 ..... c 28 N70-41922 *
US-PATENT-3,304,724 ..... c 31 N70-41948 *
US-PATENT-3,304,729 ..... c 31 N70-41871 *
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US-PATENT-3,310,262 ..... c 02 N71-12243 *
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US-PATENT-3,310,765 ..... c 33 N79-21264 *
US-PATENT-3,310,978 ..... c 14 N71-10616 *
US-PATENT-3,310,980 ..... c 11 N71-10604 *
US-PATENT-3,311,315 ..... c 07 N71-10609 *
US-PATENT-3,311,502 ..... c 03 N71-10608 *
US-PATENT-3,311,510 ..... c 26 N71-10607 *
US-PATENT-3,311,571 ..... c 27 N79-21190 *
US-PATENT-3,311,748 ..... c 21 N71-10678 *
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US-PATENT-3,311,832 ..... c 07 N71-10775 *
US-PATENT-3,312,101 ..... c 14 N71-10774 *
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US-PATENT-3,316,716 ..... c 28 N71-10780 *
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US-PATENT-3,317,180 ..... c 15 N71-10778 *
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US-PATENT-3,318,096 ..... c 28 N71-28849 *
US-PATENT-3,318,343 ..... c 15 N71-10809 *
US-PATENT-3,318,622 ..... c 15 N71-10799 *
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US-PATENT-3,321,154 ..... c 31 N70-42075 *
US-PATENT-3,321,157 ..... c 02 N70-42016 *
US-PATENT-3,321,159 ..... c 31 N70-42015 *
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US-PATENT-3,321,645 ..... c 10 N70-42032 *
US-PATENT-3,321,922 ..... c 28 N70-41992 *
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US-PATENT-3,323,362 ..... c 14 N70-41994 *
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US-PATENT-3,323,386 ..... c 03 N70-42073 *
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US-PATENT-3,323,484 ..... c 14 N70-42074 *
US-PATENT-3,323,967 ..... c 15 N70-42033 *
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US-PATENT-3,324,388 ..... c 14 N71-10797 *
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US-PATENT-3,325,723 ..... c 10 N71-10578 *
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US-PATENT-3,327,991 ..... c 15 N71-21234 *
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US-PATENT-3,330,082 ..... c 15 N71-21531 *
US-PATENT-3,330,510 ..... c 31 N71-28851 *
US-PATENT-3,330,549 ..... c 15 N71-21530 *
US-PATENT-3,331,071 ..... c 07 N71-28900 *
US-PATENT-3,331,246 ..... c 11 N71-21475 *
US-PATENT-3,331,255 ..... c 15 N71-21529 *
US-PATENT-3,331,404 ..... c 12 N71-21089 *
US-PATENT-3,331,951 ..... c 21 N71-21688 *
US-PATENT-3,333,152 ..... c 25 N71-21693 *
US-PATENT-3,333,788 ..... c 31 N71-21881 *

US-PATENT-3,334,225 ..... c 14 N73-32325 *
US-PATENT-3,336,725 ..... c 15 N71-21528 *
US-PATENT-3,336,748 ..... c 25 N71-21694 *
US-PATENT-3,336,754 ..... c 28 N71-22983 *
US-PATENT-3,337,004 ..... c 14 N71-23092 *
US-PATENT-3,337,279 ..... c 05 N71-23080 *
US-PATENT-3,337,315 ..... c 18 N71-23088 *
US-PATENT-3,337,337 ..... c 18 N71-22894 *
US-PATENT-3,337,790 ..... c 12 N71-20896 *
US-PATENT-3,337,812 ..... c 09 N71-23097 *
US-PATENT-3,339,404 ..... c 14 N71-22765 *
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US-PATENT-3,340,395 ..... c 14 N71-23041 *
US-PATENT-3,340,397 ..... c 11 N71-23042 *
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US-PATENT-3,340,532 ..... c 10 N71-21473 *
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US-PATENT-3,341,708 ..... c 16 N71-22895 *
US-PATENT-3,341,778 ..... c 07 N71-23098 *
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US-PATENT-3,342,653 ..... c 15 N71-22713 *
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US-PATENT-3,344,340 ..... c 09 N71-21449 *
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US-PATENT-3,345,820 ..... c 28 N71-21822 *
US-PATENT-3,345,822 ..... c 27 N71-21819 *
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US-PATENT-3,345,866 ..... c 11 N71-21481 *
US-PATENT-3,346,419 ..... c 03 N71-20895 *
US-PATENT-3,346,442 ..... c 18 N71-21651 *
US-PATENT-3,346,515 ..... c 06 N71-20905 *
US-PATENT-3,346,724 ..... c 15 N71-21179 *
US-PATENT-3,346,806 ..... c 14 N71-21090 *
US-PATENT-3,346,929 ..... c 15 N71-21076 *
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US-PATENT-3,347,465 ..... c 18 N71-21068 *
US-PATENT-3,347,466 ..... c 28 N71-21493 *
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US-PATENT-3,349,814 ..... c 33 N71-20834 *
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US-PATENT-3,354,098 ..... c 06 N71-20717 *
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US-PATENT-3,354,462 ..... c 14 N71-21006 *
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US-PATENT-3,359,409 ..... c 07 N71-21476 *
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US-PATENT-3,364,366 ..... c 09 N71-28926 *
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US-PATENT-3,365,665 ..... c 14 N71-23037 *
US-PATENT-3,365,897 ..... c 33 N71-28892 *
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US-PATENT-3,365,941 ..... c 14 N71-22965 *
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US-PATENT-3,366,894 ..... c 10 N71-23084 *
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US-PATENT-3,367,224 ..... c 15 N71-22798 *
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US-PATENT-3,369,223 ..... c 08 N71-22710 *
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US-PATENT-3,377,208 ..... c 14 N71-23039 *
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US-PATENT-3,384,111 ..... c 15 N71-22706 *
US-PATENT-3,384,324 ..... c 33 N71-22792 *
US-PATENT-3,384,820 ..... c 09 N71-23021 *
US-PATENT-3,384,895 ..... c 07 N71-22984 *
US-PATENT-3,385,036 ..... c 15 N71-22721 *
US-PATENT-3,386,337 ..... c 15 N71-22799 *
US-PATENT-3,386,685 ..... c 31 N71-22968 *
US-PATENT-3,386,686 ..... c 31 N71-22969 *
US-PATENT-3,387,149 ..... c 14 N71-22993 *
US-PATENT-3,387,218 ..... c 37 N78-17386 *
US-PATENT-3,388,258 ..... c 14 N71-22996 *
US-PATENT-3,388,387 ..... c 10 N71-23033 *
US-PATENT-3,388,590 ..... c 14 N71-23087 *
US-PATENT-3,389,017 ..... c 15 N71-23022 *
US-PATENT-3,389,260 ..... c 14 N71-23269 *
US-PATENT-3,389,346 ..... c 10 N71-28859 *
US-PATENT-3,389,877 ..... c 15 N71-28936 *
US-PATENT-3,390,017 ..... c 03 N71-23336 *
US-PATENT-3,390,020 ..... c 26 N71-23654 *
US-PATENT-3,390,023 ..... c 26 N75-29236 *
US-PATENT-3,390,282 ..... c 09 N71-23311 *
US-PATENT-3,390,378 ..... c 08 N71-23295 *
US-PATENT-3,390,528 ..... c 20 N79-21124 *
US-PATENT-3,391,080 ..... c 15 N71-24046 *
US-PATENT-3,392,403 ..... c 23 N71-23976 *
US-PATENT-3,392,586 ..... c 14 N71-24232 *
US-PATENT-3,392,864 ..... c 18 N71-23658 *
US-PATENT-3,392,865 ..... c 15 N71-23816 *
US-PATENT-3,392,936 ..... c 01 N71-23497 *
US-PATENT-3,393,059 ..... c 06 N71-23499 *
US-PATENT-3,393,330 ..... c 22 N71-23599 *
US-PATENT-3,393,332 ..... c 09 N71-23443 *
US-PATENT-3,393,347 ..... c 10 N71-23543 *
US-PATENT-3,393,380 ..... c 10 N71-23544 *
US-PATENT-3,393,384 ..... c 09 N71-23573 *
US-PATENT-3,394,286 ..... c 14 N73-30391 *
US-PATENT-3,394,359 ..... c 08 N71-28925 *
US-PATENT-3,394,975 ..... c 23 N71-30027 *
US-PATENT-3,395,053 ..... c 18 N71-23047 *
US-PATENT-3,395,565 ..... c 14 N73-30390 *
US-PATENT-3,396,057 ..... c 26 N71-23043 *
US-PATENT-3,396,184 ..... c 06 N71-28808 *
US-PATENT-3,396,303 ..... c 09 N71-22987 *
US-PATENT-3,396,584 ..... c 14 N71-30026 *
US-PATENT-3,396,719 ..... c 52 N79-21750 *
US-PATENT-3,396,920 ..... c 31 N71-29050 *
US-PATENT-3,397,094 ..... c 26 N71-29156 *
US-PATENT-3,397,117 ..... c 15 N71-23086 *
US-PATENT-3,397,318 ..... c 14 N71-22991 *
US-PATENT-3,397,512 ..... c 15 N71-23023 *
US-PATENT-3,397,537 ..... c 20 N79-21125 *
US-PATENT-3,397,932 ..... c 15 N71-22982 *
US-PATENT-3,399,299 ..... c 10 N71-23662 *
US-PATENT-3,399,574 ..... c 32 N71-24285 *
US-PATENT-3,402,265 ..... c 09 N73-28084 *
US-PATENT-3,404,289 ..... c 09 N71-23545 *
US-PATENT-3,404,348 ..... c 32 N74-22096 *
US-PATENT-3,405,406 ..... c 05 N71-23161 *
US-PATENT-3,405,887 ..... c 31 N71-24315 *
US-PATENT-3,406,336 ..... c 10 N71-24863 *
US-PATENT-3,406,742 ..... c 33 N71-24276 *
US-PATENT-3,407,304 ..... c 14 N71-23240 *
US-PATENT-3,408,816 ..... c 28 N71-24736 *
US-PATENT-3,408,870 ..... c 14 N71-23227 *
US-PATENT-3,409,247 ..... c 33 N71-28903 *
US-PATENT-3,409,252 ..... c 15 N71-23255 *
US-PATENT-3,409,554 ..... c 26 N71-23292 *
US-PATENT-3,409,730 ..... c 33 N71-24145 *
US-PATENT-3,411,356 ..... c 14 N71-23226 *
US-PATENT-3,411,900 ..... c 26 N75-27126 *
US-PATENT-3,412,559 ..... c 28 N71-23293 *
US-PATENT-3,412,598 ..... c 14 N71-23225 *
US-PATENT-3,412,729 ..... c 04 N71-23185 *
US-PATENT-3,412,961 ..... c 32 N71-23971 *
US-PATENT-3,413,115 ..... c 17 N71-23365 *
US-PATENT-3,413,393 ..... c 17 N71-29137 *
US-PATENT-3,413,510 ..... c 09 N71-23190 *
US-PATENT-3,413,536 ..... c 03 N71-24605 *
US-PATENT-3,414,012 ..... c 09 N71-23191 *
US-PATENT-3,414,358 ..... c 14 N71-23175 *
US-PATENT-3,415,032 ..... c 15 N71-23256 *
US-PATENT-3,415,069 ..... c 15 N71-24044 *
US-PATENT-3,415,116 ..... c 14 N71-23790 *
US-PATENT-3,415,126 ..... c 21 N71-23289 *
US-PATENT-3,415,156 ..... c 15 N71-24043 *
US-PATENT-3,415,643 ..... c 17 N71-23248 *
US-PATENT-3,416,106 ..... c 09 N71-24808 *
US-PATENT-3,416,274 ..... c 31 N71-24035 *
US-PATENT-3,416,939 ..... c 18 N71-24183 *
US-PATENT-3,416,975 ..... c 17 N71-23828 *
US-PATENT-3,416,988 ..... c 15 N71-24164 *
US-PATENT-3,417,247 ..... c 14 N71-23797 *
US-PATENT-3,417,266 ..... c 09 N71-23270 *
US-PATENT-3,417,298 ..... c 10 N71-23271 *
US-PATENT-3,417,316 ..... c 14 N71-23174 *
US-PATENT-3,417,321 ..... c 09 N71-23316 *
US-PATENT-3,417,332 ..... c 07 N71-23405 *
US-PATENT-3,417,399 ..... c 30 N71-23723 *
US-PATENT-3,417,400 ..... c 07 N71-28809 *
US-PATENT-3,419,329 ..... c 14 N71-23268 *
US-PATENT-3,419,363 ..... c 18 N71-23710 *
US-PATENT-3,419,384 ..... c 17 N73-28573 *
US-PATENT-3,419,433 ..... c 03 N71-23187 *
US-PATENT-3,419,531 ..... c 27 N79-21191 *
US-PATENT-3,419,537 ..... c 06 N71-23500 *
US-PATENT-3,419,827 ..... c 09 N71-23548 *
US-PATENT-3,419,964 ..... c 14 N69-21363 * #
US-PATENT-3,419,992 ..... c 14 N71-23401 *
US-PATENT-3,420,069 ..... c 15 N69-21465 * #
US-PATENT-3,420,223 ..... c 05 N69-21925 * #
US-PATENT-3,420,225 ..... c 05 N69-21473 * #
US-PATENT-3,420,253 ..... c 12 N69-21466 * #
US-PATENT-3,420,338 ..... c 15 N71-26243 *
US-PATENT-3,420,471 ..... c 05 N69-21380 * #
US-PATENT-3,420,704 ..... c 15 N69-21460 * #
US-PATENT-3,420,945 ..... c 09 N69-21542 * #
US-PATENT-3,420,978 ..... c 15 N69-21471 * #
US-PATENT-3,421,004 ..... c 14 N71-19568 *
US-PATENT-3,421,053 ..... c 15 N69-21472 * #
US-PATENT-3,421,056 ..... c 14 N69-23191 * #
US-PATENT-3,421,105 ..... c 09 N69-21543 * #
US-PATENT-3,421,134 ..... c 09 N69-21470 * #
US-PATENT-3,421,331 ..... c 15 N69-23190 * #
US-PATENT-3,421,363 ..... c 11 N69-21540 * #
US-PATENT-3,421,506 ..... c 05 N69-23192 * #

US-PATENT-3,421,541 ..... c 15 N69-21924 * #
US-PATENT-3,421,549 ..... c 03 N69-21469 * #
US-PATENT-3,421,591 ..... c 14 N69-21923 * #
US-PATENT-3,421,700 ..... c 15 N69-23185 * #
US-PATENT-3,421,768 ..... c 15 N69-21362 * #
US-PATENT-3,421,864 ..... c 17 N71-23046 *
*US-PATENT-3,421,948 ..... c 03 N69-21337 * #*
US-PATENT-3,422,213 ..... c 03 N69-21539 * #
US-PATENT-3,422,278 ..... c 09 N69-21468 * #
US-PATENT-3,422,291 ..... c 25 N69-21929 * #
US-PATENT-3,422,324 ..... c 14 N69-21541 * #
US-PATENT-3,422,352 ..... c 14 N71-19431 *
US-PATENT-3,422,354 ..... c 09 N69-21926 * #
US-PATENT-3,422,390 ..... c 09 N69-21927 * #
US-PATENT-3,422,403 ..... c 08 N69-21928 * #
US-PATENT-3,422,440 ..... c 09 N69-21467 * #
US-PATENT-3,423,179 ..... c 15 N69-21922 * #
US-PATENT-3,423,290 ..... c 06 N71-17705 *
US-PATENT-3,423,579 ..... c 09 N71-19480 *
*US-PATENT-3,423,608 ..... c 09 N69-21313 * #*
US-PATENT-3,423,627 ..... c 33 N78-17293 *
US-PATENT-3,424,966 ..... c 10 N71-20448 *
US-PATENT-3,425,131 ..... c 15 N71-19489 *
US-PATENT-3,425,268 ..... c 14 N69-39975 * #
US-PATENT-3,425,272 ..... c 14 N71-20439 *
US-PATENT-3,425,276 ..... c 14 N69-24257 * #
US-PATENT-3,425,486 ..... c 05 N71-24147 *
US-PATENT-3,425,487 ..... c 05 N71-19439 *
US-PATENT-3,425,885 ..... c 15 N69-24322 * #
US-PATENT-3,426,219 ..... c 09 N69-24317 * #
US-PATENT-3,426,230 ..... c 15 N69-24319 * #
US-PATENT-3,426,263 ..... c 03 N71-19438 *
*US-PATENT-3,426,272 ..... c 14 N69-39785 * #*
US-PATENT-3,426,746 ..... c 05 N71-26293 *
US-PATENT-3,426,791 ..... c 15 N71-19569 *
US-PATENT-3,427,047 ..... c 15 N69-27490 * #
US-PATENT-3,427,089 ..... c 23 N69-24332 * #
US-PATENT-3,427,093 ..... c 09 N71-19479 *
US-PATENT-3,427,097 ..... c 11 N69-24321 * #
US-PATENT-3,427,205 ..... c 15 N69-24320 * #
US-PATENT-3,427,435 ..... c 17 N69-25147 * #
US-PATENT-3,427,454 ..... c 05 N71-19440 *
US-PATENT-3,427,525 ..... c 03 N69-21330 * #
US-PATENT-3,428,761 ..... c 09 N69-24329 * #
US-PATENT-3,428,812 ..... c 14 N69-27485 * #
US-PATENT-3,428,847 ..... c 15 N69-24266 * #
US-PATENT-3,428,910 ..... c 09 N69-24330 * #
US-PATENT-3,428,919 ..... c 07 N69-24334 * #
US-PATENT-3,428,923 ..... c 07 N69-27462 * #
US-PATENT-3,429,058 ..... c 12 N69-39988 * #
US-PATENT-3,429,177 ..... c 06 N69-39733 * #
US-PATENT-3,429,477 ..... c 15 N69-27502 * #
US-PATENT-3,429,756 ..... c 76 N79-21910 *
US-PATENT-3,430,063 ..... c 09 N69-27500 * #
US-PATENT-3,430,115 ..... c 09 N69-24318 * #
US-PATENT-3,430,131 ..... c 24 N71-20518 *
US-PATENT-3,430,182 ..... c 14 N69-27431 * #
US-PATENT-3,430,227 ..... c 08 N71-19687 *
US-PATENT-3,430,237 ..... c 07 N69-39974 * #
US-PATENT-3,430,460 ..... c 15 N69-27505 * #
US-PATENT-3,430,902 ..... c 14 N69-27486 * #
US-PATENT-3,430,909 ..... c 11 N69-27466 * #
US-PATENT-3,430,937 ..... c 15 N69-27483 * #
US-PATENT-3,430,942 ..... c 15 N69-27504 * #
US-PATENT-3,431,149 ..... c 14 N69-27459 * #
US-PATENT-3,431,397 ..... c 15 N69-27871 * #
US-PATENT-3,431,460 ..... c 09 N71-23189 *
US-PATENT-3,431,559 ..... c 09 N69-24333 * #
US-PATENT-3,432,730 ..... c 09 N69-27422 * #
US-PATENT-3,433,015 ..... c 28 N71-20330 *
US-PATENT-3,433,079 ..... c 14 N69-27503 * #
US-PATENT-3,433,662 ..... c 14 N71-20461 *
US-PATENT-3,433,818 ..... c 06 N71-23230 *
US-PATENT-3,433,909 ..... c 10 N71-23663 *
US-PATENT-3,433,953 ..... c 14 N69-27484 * #
US-PATENT-3,433,960 ..... c 16 N69-27491 * #
US-PATENT-3,433,961 ..... c 14 N69-27432 * #
US-PATENT-3,434,033 ..... c 09 N69-39984 * #
US-PATENT-3,434,037 ..... c 10 N71-26414 *
US-PATENT-3,434,050 ..... c 09 N71-20569 *
US-PATENT-3,434,064 ..... c 09 N69-39986 * #
US-PATENT-3,434,855 ..... c 18 N71-24184 *
US-PATENT-3,434,885 ..... c 03 N71-20492 *
US-PATENT-3,435,246 ..... c 14 N69-24331 * #
US-PATENT-3,437,394 ..... c 14 N69-27461 * #
US-PATENT-3,437,527 ..... c 03 N69-24267 * #
US-PATENT-3,437,560 ..... c 04 N69-27487 * #
US-PATENT-3,437,818 ..... c 03 N71-23354 *
US-PATENT-3,437,832 ..... c 09 N69-27463 * #
US-PATENT-3,437,874 ..... c 08 N71-20571 *
US-PATENT-3,437,903 ..... c 03 N69-25146 * #
US-PATENT-3,437,919 ..... c 14 N69-27423 * #
US-PATENT-3,437,935 ..... c 09 N69-24324 * #
US-PATENT-3,437,959 ..... c 07 N69-24323 * #
US-PATENT-3,438,044 ..... c 07 N69-27460 * #
US-PATENT-3,438,263 ..... c 14 N71-20435 *
US-PATENT-3,439,886 ..... c 31 N69-27499 * #
US-PATENT-3,440,419 ..... c 14 N73-28491 *
US-PATENT-3,442,674 ..... c 25 N82-29370 *
US-PATENT-3,443,128 ..... c 03 N69-39890 * #
US-PATENT-3,443,208 ..... c 14 N71-20428 *
US-PATENT-3,443,384 ..... c 28 N71-24321 *
*US-PATENT-3,443,390 ..... c 11 N71-24964 **
US-PATENT-3,443,412 ..... c 15 N71-23811 *
US-PATENT-3,443,416 ..... c 06 N69-39936 * #
US-PATENT-3,443,472 ..... c 15 N71-23254 *
US-PATENT-3,443,583 ..... c 14 N71-18625 *
US-PATENT-3,443,584 ..... c 32 N71-16106 *
US-PATENT-3,443,732 ..... c 15 N71-15607 *
US-PATENT-3,443,773 ..... c 31 N71-23912 *
US-PATENT-3,443,779 ..... c 01 N69-39981 * #
US-PATENT-3,444,051 ..... c 05 N71-11207 *
US-PATENT-3,444,127 ..... c 06 N71-11237 *
US-PATENT-3,444,375 ..... c 14 N71-15599 *
US-PATENT-3,444,380 ..... c 07 N69-39980 * #
*US-PATENT-3,446,075 ..... c 14 N73-30394 **
US-PATENT-3,446,387 ..... c 15 N69-39935 * #
US-PATENT-3,446,558 ..... c 16 N71-24074 *
US-PATENT-3,446,642 ..... c 18 N69-39895 * #
US-PATENT-3,446,676 ..... c 03 N71-11050 *
US-PATENT-3,446,960 ..... c 14 N69-39982 * #
US-PATENT-3,446,992 ..... c 09 N69-39987 * #
US-PATENT-3,446,997 ..... c 03 N69-39898 * #
US-PATENT-3,446,998 ..... c 09 N69-39929 * #
US-PATENT-3,447,003 ..... c 09 N71-20446 *
US-PATENT-3,447,015 ..... c 06 N69-39889 * #
US-PATENT-3,447,071 ..... c 25 N69-39884 * #
US-PATENT-3,447,154 ..... c 21 N71-11766 *
US-PATENT-3,447,155 ..... c 09 N71-18598 *
US-PATENT-3,447,233 ..... c 15 N69-39786 * #
US-PATENT-3,447,774 ..... c 15 N71-19485 *
US-PATENT-3,447,850 ..... c 09 N71-18600 *
US-PATENT-3,448,273 ..... c 07 N69-39736 * #
US-PATENT-3,448,290 ..... c 10 N71-23315 *
US-PATENT-3,448,341 ..... c 09 N71-12526 *
US-PATENT-3,448,346 ..... c 15 N71-18701 *
US-PATENT-3,450,842 ..... c 07 N69-39978 * #
US-PATENT-3,450,878 ..... c 14 N71-20430 *
US-PATENT-3,450,946 ..... c 09 N69-39897 * #
US-PATENT-3,452,103 ..... c 06 N73-30101 *
US-PATENT-3,452,423 ..... c 26 N71-16037 *
US-PATENT-3,452,872 ..... c 14 N69-39896 * #
US-PATENT-3,453,172 ..... c 15 N69-39735 * #
US-PATENT-3,453,462 ..... c 03 N69-39983 * #
US-PATENT-3,453,546 ..... c 05 N71-12342 *
US-PATENT-3,453,878 ..... c 09 N79-21083 *
US-PATENT-3,454,410 ..... c 18 N69-39979 * #
US-PATENT-3,454,766 ..... c 35 N75-27329 *
US-PATENT-3,455,121 ..... c 14 N71-20427 *
US-PATENT-3,455,171 ..... c 23 N71-16098 *
US-PATENT-3,456,112 ..... c 14 N69-39937 * #
US-PATENT-3,456,193 ..... c 08 N71-19763 *
US-PATENT-3,456,201 ..... c 09 N69-39885 * #
US-PATENT-3,458,104 ..... c 15 N71-20393 *
US-PATENT-3,458,313 ..... c 14 N71-17574 *
US-PATENT-3,458,651 ..... c 09 N71-19449 *
US-PATENT-3,458,702 ..... c 14 N71-18699 *
US-PATENT-3,458,726 ..... c 10 N69-39888 * #
US-PATENT-3,458,833 ..... c 10 N71-19418 *
US-PATENT-3,458,851 ..... c 09 N69-39734 * #
US-PATENT-3,459,391 ..... c 03 N71-11058 *
US-PATENT-3,460,378 ..... c 14 N71-24233 *
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US-PATENT-3,460,381 ..... c 14 N71-23725 *
US-PATENT-3,460,397 ..... c 15 N71-24045 *
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US-PATENT-3,460,995 ..... c 03 N71-20407 *
US-PATENT-3,461,290 ..... c 14 N71-26475 *
US-PATENT-3,461,393 ..... c 10 N71-26415 *
US-PATENT-3,461,437 ..... c 10 N71-26434 *
US-PATENT-3,461,700 ..... c 15 N71-26346 *
US-PATENT-3,461,721 ..... c 12 N71-20436 *
US-PATENT-3,461,855 ..... c 05 N71-20268 *
US-PATENT-3,463,001 ..... c 14 N71-20429 *
US-PATENT-3,463,563 ..... c 15 N71-23812 *
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US-PATENT-3,463,761 ..... c 06 N73-30099 *
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US-PATENT-3,464,018 ..... c 09 N71-23525 *
US-PATENT-3,464,049 ..... c 32 N71-15974 *
US-PATENT-3,464,051 ..... c 15 N71-17685 *
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US-PATENT-3,465,567 ..... c 15 N71-18579 *
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US-PATENT-3,466,198 ..... c 03 N71-19545 *
US-PATENT-3,466,243 ..... c 15 N71-23810 *
US-PATENT-3,466,418 ..... c 15 N71-18613 *
US-PATENT-3,466,424 ..... c 15 N71-20395 *
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US-PATENT-3,470,318 ..... c 07 N71-24612 *
US-PATENT-3,470,342 ..... c 09 N71-19610 *
US-PATENT-3,470,443 ..... c 03 N71-23239 *
US-PATENT-3,470,446 ..... c 09 N71-23188 *
US-PATENT-3,470,466 ..... c 14 N71-23699 *
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US-PATENT-3,472,577 ..... c 23 N71-24857 *
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US-PATENT-3,472,629 ..... c 14 N71-20442 *
US-PATENT-3,472,698 ..... c 03 N71-23449 *
US-PATENT-3,472,709 ..... c 18 N71-26153 *
US-PATENT-3,472,742 ..... c 17 N71-24830 *
US-PATENT-3,472,998 ..... c 16 N71-20400 *
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US-PATENT-3,473,116 ..... c 25 N71-20563 *
US-PATENT-3,473,165 ..... c 05 N71-26333 *
US-PATENT-3,473,216 ..... c 15 N71-20443 *
US-PATENT-3,473,379 ..... c 12 N71-26387 *
US-PATENT-3,473,758 ..... c 03 N71-20273 *
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US-PATENT-3,474,220 ..... c 15 N71-19486 *
US-PATENT-3,474,328 ..... c 14 N71-26266 *
US-PATENT-3,474,357 ..... c 09 N71-20445 *
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US-PATENT-3,475,442 ..... c 26 N75-27125 *
US-PATENT-3,475,675 ..... c 33 N78-17295 *
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US-PATENT-3,480,789 ..... c 10 N71-26626 *
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US-PATENT-3,481,802 ..... c 31 N79-21226 *
US-PATENT-3,481,887 ..... c 18 N71-26155 *
US-PATENT-3,482,179 ..... c 10 N71-26331 *
US-PATENT-3,483,535 ..... c 10 N71-26418 *
US-PATENT-3,484,712 ..... c 10 N71-26374 *
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US-PATENT-3,486,123 ..... c 16 N71-24831 *
US-PATENT-3,487,216 ..... c 14 N71-24809 *
US-PATENT-3,487,281 ..... c 15 N71-24695 *
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US-PATENT-3,487,680 ..... c 15 N71-17696 *
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US-PATENT-3,488,414 ..... c 15 N71-17803 *
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US-PATENT-3,488,504 ..... c 21 N71-15642 *
US-PATENT-3,488,771 ..... c 54 N78-17678 *
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US-PATENT-3,490,205 ..... c 14 N71-17588 *
US-PATENT-3,490,235 ..... c 28 N71-14044 *

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US-PATENT-3,491,255 ..... c 09 N71-12514 *
US-PATENT-3,491,335 ..... c 14 N71-15620 *
US-PATENT-3,491,857 ..... c 14 N71-17626 *
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US-PATENT-3,493,294 ..... c 14 N71-15605 *
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US-PATENT-3,632,140 ..... c 15 N72-20445 *
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US-PATENT-3,745,475 ..... c 14 N73-30386 *
US-PATENT-3,745,739 ..... c 15 N73-27405 *
US-PATENT-3,745,816 ..... c 33 N73-27796 *
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US-PATENT-3,748,722 ..... c 15 N73-33383 *
US-PATENT-3,748,853 ..... c 23 N73-30665 *
US-PATENT-3,748,905 ..... c 14 N73-30395 *
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US-PATENT-3,749,362 ..... c 15 N73-30457 *
US-PATENT-3,749,831 ..... c 07 N73-30115 *
US-PATENT-3,749,911 ..... c 14 N73-30389 *
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US-PATENT-3,750,035 ..... c 33 N77-13315 *
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US-PATENT-3,751,727 ..... c 05 N73-32012 *
US-PATENT-3,751,733 ..... c 05 N73-32013 *
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US-PATENT-3,752,559 ..... c 14 N73-30393 *
US-PATENT-3,752,564 ..... c 23 N73-30666 *
US-PATENT-3,752,665 ..... c 18 N73-32437 *
US-PATENT-3,752,847 ..... c 06 N73-30098 *
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US-PATENT-3,754,263 ..... c 09 N73-32110 *
US-PATENT-3,754,976 ..... c 15 N73-32360 *
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US-PATENT-3,755,283 ..... c 06 N73-32029 *
US-PATENT-3,755,686 ..... c 03 N73-31988 *
US-PATENT-3,756,920 ..... c 05 N73-32011 *
US-PATENT-3,757,183 ..... c 09 N73-32107 *
US-PATENT-3,757,476 ..... c 31 N73-32749 *
US-PATENT-3,757,568 ..... c 14 N73-32323 *
US-PATENT-3,757,659 ..... c 14 N73-32322 *
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US-PATENT-3,758,718 ..... c 10 N73-32143 *
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US-PATENT-3,758,781 ..... c 14 N73-32317 *
US-PATENT-3,758,877 ..... c 16 N73-32391 *
US-PATENT-3,759,152 ..... c 14 N73-32319 *
US-PATENT-3,759,249 ..... c 05 N73-32015 *
US-PATENT-3,759,443 ..... c 28 N73-32606 *
US-PATENT-3,759,588 ..... c 15 N73-32359 *
US-PATENT-3,759,672 ..... c 14 N73-32320 *
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US-PATENT-3,759,747 ..... c 44 N74-19692 *
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US-PATENT-3,762,918 ..... c 17 N73-32415 *
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US-PATENT-3,763,708 ..... c 35 N74-18323 *
US-PATENT-3,763,740 ..... c 11 N73-32152 *
US-PATENT-3,763,928 ..... c 33 N73-32818 *
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US-PATENT-3,764,209 ..... c 14 N73-33361 *
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US-PATENT-3,764,850 ..... c 33 N74-10195 *
US-PATENT-3,764,933 ..... c 33 N74-10194 *
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US-PATENT-3,765,958 ..... c 26 N74-10521 *
US-PATENT-3,766,315 ..... c 32 N74-10132 *
US-PATENT-3,766,380 ..... c 35 N74-11284 *
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US-PATENT-3,769,623 ..... c 32 N74-11000 *
US-PATENT-3,769,689 ..... c 37 N74-11301 *
US-PATENT-3,769,834 ..... c 52 N74-10975 *
US-PATENT-3,770,021 ..... c 33 N74-11050 *
US-PATENT-3,770,903 ..... c 35 N74-11283 *
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US-PATENT-3,771,040 ..... c 33 N74-11049 *
US-PATENT-3,771,074 ..... c 36 N74-11313 *
US-PATENT-3,771,959 ..... c 25 N74-12813 *
US-PATENT-3,772,174 ..... c 27 N74-13270 *
US-PATENT-3,772,216 ..... c 27 N74-12812 *
US-PATENT-3,772,220 ..... c 27 N74-12814 *
US-PATENT-3,772,272 ..... c 33 N74-12887 *
US-PATENT-3,772,418 ..... c 31 N74-13177 *
US-PATENT-3,772,691 ..... c 32 N74-12912 *

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US-PATENT-3,775,570 ..... c 35 N78-29421 *
US-PATENT-3,776,028 ..... c 35 N74-13129 *
US-PATENT-3,776,432 ..... c 37 N74-13178 *
US-PATENT-3,776,455 ..... c 04 N74-13420 *
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US-PATENT-3,777,490 ..... c 20 N74-13502 *
US-PATENT-3,777,546 ..... c 35 N74-13132 *
US-PATENT-3,777,552 ..... c 38 N74-15130 *
US-PATENT-3,777,605 ..... c 39 N74-13131 *
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US-PATENT-3,782,205 ..... c 35 N74-15094 *
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US-PATENT-3,782,699 ..... c 35 N74-15126 *
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US-PATENT-3,782,825 ..... c 35 N74-15146 *
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US-PATENT-3,782,904 ..... c 35 N74-15127 *
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US-PATENT-3,788,163 ..... c 37 N74-18127 *
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US-PATENT-3,795,840 ..... c 33 N74-17929 *
US-PATENT-3,795,858 ..... c 35 N74-18090 *
US-PATENT-3,795,862 ..... c 33 N74-17930 *
US-PATENT-3,795,900 ..... c 35 N74-17885 *
US-PATENT-3,795,910 ..... c 44 N74-19870 *
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US-PATENT-3,796,592 ..... c 24 N74-19769 *
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US-PATENT-3,799,813 ..... c 76 N74-20329 *
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US-PATENT-3,800,082 ..... c 71 N74-21014 *
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US-PATENT-3,800,227 ..... c 32 N74-20809 *
US-PATENT-3,800,237 ..... c 32 N74-19788 *
US-PATENT-3,800,253 ..... c 37 N74-21056 *
US-PATENT-3,801,617 ..... c 37 N74-21058 *
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US-PATENT-3,802,253 ..... c 52 N74-20726 *
US-PATENT-3,802,262 ..... c 35 N74-21018 *
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US-PATENT-3,802,753 ..... c 37 N74-21064 *
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US-PATENT-3,803,090 ..... c 27 N74-21156 *
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US-PATENT-3,803,617 ..... c 32 N74-20863 *
US-PATENT-3,804,472 ..... c 37 N74-21061 *
US-PATENT-3,804,506 ..... c 33 N74-20861 *
US-PATENT-3,804,525 ..... c 36 N74-21091 *
US-PATENT-3,804,703 ..... c 37 N74-21063 *
US-PATENT-3,805,266 ..... c 32 N74-20864 *
US-PATENT-3,805,303 ..... c 54 N74-20725 *
US-PATENT-3,805,622 ..... c 35 N74-21062 *
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US-PATENT-3,806,932 ..... c 33 N74-20860 *
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US-PATENT-3,807,656 ..... c 18 N74-22136 *
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US-PATENT-3,808,511 ..... c 33 N74-22864 *
US-PATENT-3,808,517 ..... c 33 N74-22885 *
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US-PATENT-3,809,601 ..... c 37 N74-23064 *
US-PATENT-3,809,800 ..... c 33 N74-22865 *
US-PATENT-3,809,871 ..... c 52 N74-22771 *
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US-PATENT-3,813,937 ..... c 34 N74-27859 *
US-PATENT-3,814,083 ..... c 52 N74-26626 *
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US-PATENT-3,814,653 ..... c 24 N74-27035 *
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US-PATENT-3,814,939 ..... c 25 N74-26947 *
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US-PATENT-3,815,109 ..... c 52 N74-26625 *
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US-PATENT-3,816,785 ..... c 73 N74-26767 *
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US-PATENT-3,818,346 ..... c 33 N74-27705 *
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US-PATENT-3,818,814 ..... c 31 N74-27902 *
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US-PATENT-3,828,137 ..... c 32 N74-30524 *
US-PATENT-3,828,138 ..... c 32 N74-30523 *
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US-PATENT-3,837,285 ..... c 85 N74-34672 *
US-PATENT-3,837,908 ..... c 76 N79-16678 *
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US-PATENT-3,842,509 ..... c 35 N75-12273 *
US-PATENT-3,842,656 ..... c 76 N75-12810 *
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US-PATENT-3,847,141 ..... c 35 N75-12271 *
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US-PATENT-3,866,128 ..... c 33 N75-19515 *
US-PATENT-3,866,210 ..... c 33 N75-19517 *
US-PATENT-3,866,233 ..... c 33 N75-19516 *
US-PATENT-3,866,863 ..... c 18 N75-19329 *
US-PATENT-3,867,677 ..... c 33 N75-19524 *
US-PATENT-3,868,591 ..... c 36 N75-19655 *
US-PATENT-3,868,830 ..... c 77 N75-20139 *
US-PATENT-3,868,856 ..... c 35 N75-19614 *
US-PATENT-3,869,151 ..... c 37 N75-19686 *
US-PATENT-3,869,160 ..... c 37 N75-19685 *
US-PATENT-3,869,210 ..... c 36 N75-19653 *
US-PATENT-3,869,212 ..... c 35 N75-19613 *
US-PATENT-3,869,597 ..... c 77 N75-20140 *
US-PATENT-3,869,615 ..... c 35 N75-19616 *
US-PATENT-3,869,624 ..... c 33 N75-18479 *
US-PATENT-3,869,659 ..... c 33 N75-19522 *
US-PATENT-3,869,667 ..... c 33 N75-19521 *
US-PATENT-3,869,676 ..... c 33 N75-19520 *
US-PATENT-3,869,680 ..... c 36 N75-19654 *
US-PATENT-3,869,779 ..... c 26 N75-19408 *
US-PATENT-3,872,395 ..... c 33 N75-19518 *
US-PATENT-3,874,240 ..... c 35 N75-25122 *
US-PATENT-3,874,635 ..... c 37 N75-25185 *
US-PATENT-3,874,677 ..... c 37 N75-21631 *
US-PATENT-3,875,332 ..... c 32 N75-21486 *
US-PATENT-3,875,394 ..... c 33 N75-26243 *
US-PATENT-3,875,404 ..... c 35 N75-23910 *

US-PATENT-3,875,435 ..... c 20 N75-24837 *
US-PATENT-3,875,500 ..... c 35 N75-21582 *
US-PATENT-3,875,584 ..... c 32 N75-21485 *
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US-PATENT-3,878,464 ..... c 32 N75-24981 *
US-PATENT-3,881,132 ..... c 33 N77-21315 *
US-PATENT-3,882,417 ..... c 36 N78-17366 *
US-PATENT-3,882,530 ..... c 76 N75-25730 *
US-PATENT-3,882,634 ..... c 51 N75-25503 *
US-PATENT-3,882,719 ..... c 14 N75-24794 *
US-PATENT-3,882,732 ..... c 12 N75-24774 *
US-PATENT-3,882,846 ..... c 05 N75-24716 *
US-PATENT-3,883,095 ..... c 07 N75-24736 *
US-PATENT-3,883,215 ..... c 35 N75-25124 *
US-PATENT-3,883,436 ..... c 74 N75-25706 *
US-PATENT-3,883,689 ..... c 35 N75-25123 *
US-PATENT-3,883,785 ..... c 09 N75-24758 *
US-PATENT-3,883,812 ..... c 33 N75-25041 *
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US-PATENT-3,887,365 ..... c 37 N75-26371 *
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US-PATENT-3,889,122 ..... c 37 N75-26372 *
US-PATENT-3,889,155 ..... c 33 N75-26244 *
US-PATENT-3,889,182 ..... c 33 N75-26245 *
US-PATENT-3,889,185 ..... c 33 N75-26246 *
US-PATENT-3,889,264 ..... c 32 N75-26194 *
US-PATENT-3,891,311 ..... c 54 N75-27759 *
US-PATENT-3,891,452 ..... c 27 N75-27160 *
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US-PATENT-3,891,851 ..... c 35 N75-27331 *
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US-PATENT-3,893,458 ..... c 54 N75-27761 *
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US-PATENT-3,895,912 ..... c 35 N75-29380 *
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US-PATENT-3,896,955 ..... c 37 N77-22480 *
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US-PATENT-3,898,730 ..... c 24 N75-30260 *
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US-PATENT-3,899,252 ..... c 35 N75-30502 *
US-PATENT-3,899,517 ..... c 23 N75-30256 *
US-PATENT-3,899,680 ..... c 73 N75-30876 *
US-PATENT-3,899,696 ..... c 36 N75-30524 *
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US-PATENT-3,905,660 ..... c 37 N75-31446 *
US-PATENT-3,906,231 ..... c 33 N75-31332 *
US-PATENT-3,906,296 ..... c 33 N75-31331 *
US-PATENT-3,906,374 ..... c 33 N75-31330 *
US-PATENT-3,906,393 ..... c 36 N75-31427 *
US-PATENT-3,906,397 ..... c 36 N75-31426 *
US-PATENT-3,906,398 ..... c 36 N75-32441 *
US-PATENT-3,906,769 ..... c 24 N75-33181 *
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US-PATENT-3,906,913 ..... c 37 N76-18457 *
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US-PATENT-3,907,646 ..... c 35 N75-33368 *
US-PATENT-3,907,686 ..... c 34 N75-33342 *
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US-PATENT-3,910,039 ..... c 20 N76-14191 *
US-PATENT-3,910,257 ..... c 52 N76-14757 *
US-PATENT-3,910,307 ..... c 37 N76-14463 *
US-PATENT-3,910,533 ..... c 18 N76-14186 *
US-PATENT-3,910,814 ..... c 24 N76-14204 *
US-PATENT-3,911,260 ..... c 35 N76-14431 *
US-PATENT-3,911,330 ..... c 33 N76-14373 *
US-PATENT-3,912,540 ..... c 44 N76-14600 *
US-PATENT-3,912,541 ..... c 44 N76-14601 *
US-PATENT-3,912,999 ..... c 44 N76-18643 *
US-PATENT-3,914,950 ..... c 31 N76-14284 *
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US-PATENT-3,914,991 ..... c 35 N76-14430 *
US-PATENT-3,914,997 ..... c 35 N76-14429 *
US-PATENT-3,915,012 ..... c 54 N76-14804 *
US-PATENT-3,915,148 ..... c 44 N76-14602 *
US-PATENT-3,915,416 ..... c 15 N76-14158 *
US-PATENT-3,915,482 ..... c 37 N76-14460 *
US-PATENT-3,915,572 ..... c 36 N76-14447 *
US-PATENT-3,916,060 ..... c 27 N76-15310 *
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US-PATENT-3,916,187 ..... c 35 N76-15431 *
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US-PATENT-3,916,380 ..... c 60 N76-14818 *
US-PATENT-3,916,761 ..... c 75 N76-14931 *
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US-PATENT-3,920,416 ..... c 44 N76-18642 *
US-PATENT-3,922,930 ..... c 37 N76-15457 *
US-PATENT-3,923,166 ..... c 37 N76-15460 *
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US-PATENT-3,924,137 ..... c 72 N76-15860 *
US-PATENT-3,924,164 ..... c 33 N76-15373 *
US-PATENT-3,924,176 ..... c 35 N76-16390 *
US-PATENT-3,924,183 ..... c 33 N76-16331 *
US-PATENT-3,924,200 ..... c 35 N76-15436 *
US-PATENT-3,924,237 ..... c 32 N76-15330 *
US-PATENT-3,924,239 ..... c 35 N76-15435 *
US-PATENT-3,924,267 ..... c 35 N76-16391 *
US-PATENT-3,924,444 ..... c 35 N76-15432 *
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US-PATENT-3,927,227 ..... c 12 N76-15189 *
US-PATENT-3,927,324 ..... c 35 N76-15433 *
US-PATENT-3,927,408 ..... c 32 N76-15329 *
US-PATENT-3,928,708 ..... c 27 N76-16230 *
US-PATENT-3,929,119 ..... c 75 N76-17951 *
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US-PATENT-3,929,364 ..... c 35 N76-16392 *
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US-PATENT-3,930,735 ..... c 66 N76-19888 *
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US-PATENT-3,931,447 ..... c 27 N76-16229 *
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US-PATENT-3,931,462 ..... c 45 N76-17656 *
US-PATENT-3,931,516 ..... c 35 N76-16393 *
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US-PATENT-3,937,215 ..... c 52 N76-19785 *
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US-PATENT-3,937,533 ..... c 37 N76-18459 *
US-PATENT-3,937,555 ..... c 35 N76-18402 *
US-PATENT-3,937,661 ..... c 37 N76-18456 *
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US-PATENT-3,938,162 ..... c 32 N76-18295 *
US-PATENT-3,938,182 ..... c 33 N76-18353 *
US-PATENT-3,938,188 ..... c 33 N76-18345 *
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US-PATENT-3,938,373 ..... c 35 N76-18400 *
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US-PATENT-3,938,956 ..... c 35 N76-18403 *
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US-PATENT-3,940,621 ..... c 34 N76-18374 *
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US-PATENT-3,942,398 ..... c 37 N76-20480 *
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US-PATENT-3,943,442 ..... c 76 N76-20994 *
US-PATENT-3,943,763 ..... c 04 N76-20114 *
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US-PATENT-3,945,801 ..... c 45 N76-21742 *
US-PATENT-3,945,879 ..... c 37 N76-21554 *
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US-PATENT-3,948,470 ..... c 20 N76-21275 *
US-PATENT-3,949,206 ..... c 32 N76-21366 *
US-PATENT-3,949,400 ..... c 17 N76-21250 *
US-PATENT-3,949,404 ..... c 32 N76-21365 *
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US-PATENT-3,952,590 ..... c 09 N76-23273 *
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US-PATENT-3,952,980 ..... c 19 N76-22284 *
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US-PATENT-3,977,147 ..... c 39 N76-31562 *
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US-PATENT-4,012,123 ..... c 74 N77-20882 *
US-PATENT-4,012,237 ..... c 26 N77-20201 *
US-PATENT-4,012,696 ..... c 32 N77-20289 *
US-PATENT-4,014,745 ..... c 51 N77-22794 *
US-PATENT-4,014,798 ..... c 25 N81-17187 *
US-PATENT-4,017,959 ..... c 37 N77-23482 *
US-PATENT-4,018,080 ..... c 35 N77-22450 *
US-PATENT-4,018,085 ..... c 35 N77-22449 *
US-PATENT-4,018,092 ..... c 37 N77-22482 *
US-PATENT-4,018,409 ..... c 37 N77-23483 *
US-PATENT-4,018,423 ..... c 54 N77-21844 *
US-PATENT-4,018,532 ..... c 74 N77-22951 *
US-PATENT-4,018,533 ..... c 74 N77-22950 *
US-PATENT-4,018,649 ..... c 51 N77-25769 *
US-PATENT-4,018,971 ..... c 44 N77-22606 *
US-PATENT-4,019,179 ..... c 32 N77-21267 *
US-PATENT-4,019,868 ..... c 44 N77-22607 *
US-PATENT-4,020,632 ..... c 07 N77-23106 *
US-PATENT-4,023,266 ..... c 33 N77-26385 *
US-PATENT-4,025,327 ..... c 35 N77-24455 *
US-PATENT-4,025,783 ..... c 74 N77-26942 *
US-PATENT-4,025,866 ..... c 33 N77-24375 *
US-PATENT-4,025,875 ..... c 36 N77-25499 *
US-PATENT-4,025,876 ..... c 71 N77-26919 *
US-PATENT-4,025,891 ..... c 35 N77-24454 *
US-PATENT-4,025,950 ..... c 32 N77-24328 *
US-PATENT-4,025,964 ..... c 52 N77-25772 *
US-PATENT-4,026,527 ..... c 34 N77-24423 *
US-PATENT-4,026,655 ..... c 36 N77-25501 *
US-PATENT-4,027,212 ..... c 33 N77-26386 *
US-PATENT-4,027,265 ..... c 32 N77-24331 *
US-PATENT-4,027,273 ..... c 36 N77-25502 *
US-PATENT-4,027,494 ..... c 35 N78-12390 *
US-PATENT-4,027,524 ..... c 09 N77-27131 *
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US-PATENT-4,029,470 ..... c 51 N77-27677 *
US-PATENT-4,029,500 ..... c 24 N77-27187 *
US-PATENT-4,029,838 ..... c 24 N77-27188 *
US-PATENT-4,030,047 ..... c 35 N77-27366 *
US-PATENT-4,030,348 ..... c 39 N78-10493 *
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US-PATENT-4,032,089 ..... c 27 N81-14077 *
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US-PATENT-4,033,133 ..... c 28 N80-10374 *
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US-PATENT-4,033,286 ..... c 25 N79-28253 *
US-PATENT-4,033,316 ..... c 33 N77-28385 *
US-PATENT-4,033,334 ..... c 52 N77-28717 *
US-PATENT-4,033,349 ..... c 52 N77-28716 *
US-PATENT-4,033,479 ..... c 37 N77-28487 *
US-PATENT-4,033,503 ..... c 26 N77-29260 *
US-PATENT-4,033,504 ..... c 26 N77-28265 *
US-PATENT-4,033,705 ..... c 07 N77-27116 *
US-PATENT-4,033,882 ..... c 32 N77-28346 *
US-PATENT-4,035,037 ..... c 37 N77-28486 *
US-PATENT-4,035,062 ..... c 74 N77-28932 *
US-PATENT-4,035,065 ..... c 74 N77-28933 *
US-PATENT-4,038,705 ..... c 54 N77-30749 *
US-PATENT-4,039-489 ..... c 27 N77-31308 *
US-PATENT-4,039-946 ..... c 35 N77-30436 *
US-PATENT-4,039,000 ..... c 34 N77-30399 *
US-PATENT-4,039,347 ..... c 27 N77-30237 *
US-PATENT-4,039,754 ..... c 32 N77-30309 *
US-PATENT-4,039,925 ..... c 33 N77-30365 *
US-PATENT-4,040,041 ..... c 33 N77-31404 *
US-PATENT-4,040,750 ..... c 35 N77-31465 *
US-PATENT-4,040,867 ..... c 44 N77-31601 *
US-PATENT-4,040,940 ..... c 37 N80-14397 *
US-PATENT-4,041,233 ..... c 27 N77-30236 *
US-PATENT-4,041,391 ..... c 32 N77-30308 *
US-PATENT-4,041,697 ..... c 37 N78-10467 *
US-PATENT-4,041,910 ..... c 37 N77-31497 *
US-PATENT-4,042,926 ..... c 32 N77-31350 *
US-PATENT-4,043,668 ..... c 35 N84-33766 *
US-PATENT-4,043,674 ..... c 36 N77-32478 *
US-PATENT-4,044,753 ..... c 44 N77-32582 *
US-PATENT-4,044,821 ..... c 44 N77-32581 *
US-PATENT-4,045,063 ..... c 37 N77-32499 *
US-PATENT-4,045,149 ..... c 07 N77-32148 *
US-PATENT-4,045,247 ..... c 35 N77-32454 *
US-PATENT-4,045,255 ..... c 26 N77-32279 *
US-PATENT-4,045,315 ..... c 44 N77-32580 *
US-PATENT-4,045,359 ..... c 25 N77-32255 *
US-PATENT-4,045,728 ..... c 35 N77-32455 *
US-PATENT-4,045,792 ..... c 60 N77-32731 *
US-PATENT-4,045,795 ..... c 32 N77-32342 *
US-PATENT-4,046,012 ..... c 35 N77-32456 *
US-PATENT-4,046,190 ..... c 34 N77-32413 *
US-PATENT-4,046,262 ..... c 54 N77-32721 *
US-PATENT-4,046,434 ..... c 37 N77-32500 *
US-PATENT-4,046,435 ..... c 37 N77-32501 *
US-PATENT-4,046,462 ..... c 44 N77-32583 *
US-PATENT-4,046,529 ..... c 54 N77-32722 *
US-PATENT-4,046,560 ..... c 26 N77-32280 *
US-PATENT-4,046,617 ..... c 76 N77-32919 *
US-PATENT-4,046,619 ..... c 27 N77-32308 *
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US-PATENT-4,051,834 ..... c 44 N78-10554 *
US-PATENT-4,051,877 ..... c 35 N78-10428 *
US-PATENT-4,052,144 ..... c 25 N78-10224 *
US-PATENT-4,052,181 ..... c 71 N78-10837 *
US-PATENT-4,052,302 ..... c 25 N78-10225 *
US-PATENT-4,052,523 ..... c 24 N78-10214 *
US-PATENT-4,052,614 ..... c 35 N78-10429 *
US-PATENT-4,052,648 ..... c 33 N78-10376 *
US-PATENT-4,052,659 ..... c 33 N78-10377 *
US-PATENT-4,052,666 ..... c 43 N78-10529 *
US-PATENT-4,052,705 ..... c 60 N78-10709 *
US-PATENT-4,053,229 ..... c 74 N78-13874 *
US-PATENT-4,053,231 ..... c 35 N78-18391 *
US-PATENT-4,053,918 ..... c 44 N78-13526 *
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US-PATENT-4,055,041 ..... c 07 N78-18066 *
US-PATENT-4,055,072 ..... c 35 N78-19465 *
US-PATENT-4,055,089 ..... c 35 N78-18390 *
US-PATENT-4,055,147 ..... c 35 N78-19466 *
US-PATENT-4,055,416 ..... c 26 N78-18182 *
US-PATENT-4,055,447 ..... c 26 N78-18183 *
US-PATENT-4,055,686 ..... c 37 N78-13436 *
US-PATENT-4,055,705 ..... c 34 N78-18355 *
US-PATENT-4,055,707 ..... c 44 N78-19599 *
US-PATENT-4,055,764 ..... c 35 N78-13400 *
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US-PATENT-4,055,810 ..... c 36 N78-18410 *
US-PATENT-4,055,847 ..... c 33 N78-13320 *
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US-PATENT-4,061,041 ..... c 71 N78-14867 *
US-PATENT-4,061,146 ..... c 52 N78-14773 *
US-PATENT-4,061,190 ..... c 43 N78-14452 *
US-PATENT-4,061,427 ..... c 36 N78-14380 *
US-PATENT-4,061,561 ..... c 25 N78-14104 *
US-PATENT-4,061,570 ..... c 54 N78-14784 *
US-PATENT-4,061,577 ..... c 74 N78-14889 *
US-PATENT-4,061,579 ..... c 24 N78-14096 *
US-PATENT-4,061,812 ..... c 24 N78-15180 *
US-PATENT-4,061,834 ..... c 27 N78-14164 *
US-PATENT-4,061,856 ..... c 27 N78-15276 *
US-PATENT-4,061,955 ..... c 44 N78-14625 *
US-PATENT-4,061,974 ..... c 32 N78-15323 *
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US-PATENT-4,062,245 ..... c 37 N78-16369 *
US-PATENT-4,062,347 ..... c 44 N78-15560 *
US-PATENT-4,062,650 ..... c 25 N78-15210 *
US-PATENT-4,062,996 ..... c 74 N78-15879 *
US-PATENT-4,063,088 ..... c 74 N78-15880 *
US-PATENT-4,063,092 ..... c 35 N78-15461 *
US-PATENT-4,063,282 ..... c 39 N78-16387 *
US-PATENT-4,063,814 ..... c 74 N78-17866 *
US-PATENT-4,063,981 ..... c 24 N78-17149 *
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US-PATENT-4,064,642 ..... c 54 N78-17675 *
US-PATENT-4,064,692 ..... c 37 N78-17384 *
US-PATENT-4,065,053 ..... c 44 N78-17460 *
US-PATENT-4,065,202 ..... c 35 N78-17357 *
US-PATENT-4,065,340 ..... c 24 N78-17150 *
US-PATENT-4,065,345 ..... c 27 N78-17205 *
US-PATENT-4,066,039 ..... c 37 N78-17383 *
US-PATENT-4,067,015 ..... c 17 N78-17140 *
US-PATENT-4,067,043 ..... c 74 N78-17865 *
US-PATENT-4,067,653 ..... c 74 N78-17867 *
US-PATENT-4,067,742 ..... c 27 N78-17206 *
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US-PATENT-4,068,495 ..... c 31 N78-17237 *
US-PATENT-4,068,763 ..... c 54 N78-17676 *
US-PATENT-4,069,028 ..... c 34 N78-17335 *
US-PATENT-4,069,212 ..... c 27 N78-17213 *
US-PATENT-4,069,478 ..... c 60 N78-17691 *
US-PATENT-4,069,661 ..... c 07 N78-18067 *
US-PATENT-4,070,574 ..... c 74 N78-18905 *
US-PATENT-4,072,532 ..... c 27 N78-19302 *
US-PATENT-4,075,057 ..... c 73 N78-19920 *
US-PATENT-4,077,231 ..... c 31 N78-25256 *
US-PATENT-4,077,678 ..... c 44 N78-24608 *
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US-PATENT-4,077,788 ..... c 28 N81-14103 *
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US-PATENT-4,077,818 ..... c 44 N78-24609 *
US-PATENT-4,077,921 ..... c 24 N78-24290 *
US-PATENT-4,078,110 ..... c 34 N78-25350 *
US-PATENT-4,078,175 ..... c 76 N78-24950 *
US-PATENT-4,078,290 ..... c 37 N78-24544 *
US-PATENT-4,078,378 ..... c 37 N78-24545 *
US-PATENT-4,079,268 ..... c 32 N78-24391 *
US-PATENT-4,080,901 ..... c 20 N78-24275 *
US-PATENT-4,081,250 ..... c 44 N78-31527 *
US-PATENT-4,082,001 ..... c 35 N78-24515 *
US-PATENT-4,082,569 ..... c 44 N78-25527 *
US-PATENT-4,083,097 ..... c 44 N78-25528 *
US-PATENT-4,083,181 ..... c 07 N78-25089 *
US-PATENT-4,083,380 ..... c 37 N78-25426 *
US-PATENT-4,083,520 ..... c 15 N78-25119 *
US-PATENT-4,083,765 ..... c 35 N78-25391 *
US-PATENT-4,084,124 ..... c 44 N78-25531 *
US-PATENT-4,084,132 ..... c 33 N78-25319 *
US-PATENT-4,084,612 ..... c 34 N78-25351 *
US-PATENT-4,084,825 ..... c 07 N78-25090 *
US-PATENT-4,084,985 ..... c 44 N78-25529 *
US-PATENT-4,085,004 ..... c 73 N78-28913 *
US-PATENT-4,085,241 ..... c 44 N78-25530 *
US-PATENT-4,085,332 ..... c 25 N78-25148 *
US-PATENT-4,087,902 ..... c 33 N78-27326 *
US-PATENT-4,087,962 ..... c 34 N78-27357 *
US-PATENT-4,087,975 ..... c 44 N78-32542 *
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US-PATENT-4,088,094 ..... c 51 N78-27733 *
US-PATENT-4,088,270 ..... c 07 N78-27121 *
US-PATENT-4,088,291 ..... c 37 N78-27425 *
US-PATENT-4,088,312 ..... c 37 N78-27423 *
US-PATENT-4,088,408 ..... c 74 N78-27904 *
US-PATENT-4,088,532 ..... c 25 N78-27226 *
US-PATENT-4,088,806 ..... c 24 N78-27180 *
US-PATENT-4,088,926 ..... c 75 N78-27913 *
US-PATENT-4,088,951 ..... c 35 N78-28411 *
US-PATENT-4,088,954 ..... c 35 N78-32397 *
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US-PATENT-4,088,999 ..... c 44 N78-28594 *
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US-PATENT-4,089,209 ..... c 35 N78-27384 *
US-PATENT-4,089,705 ..... c 44 N78-27515 *
US-PATENT-4,090,213 ..... c 44 N80-29835 *
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US-PATENT-4,091,329 ..... c 33 N78-32339 *
US-PATENT-4,091,464 ..... c 54 N78-31735 *
US-PATENT-4,091,464 ..... c 54 N79-24651 *
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US-PATENT-4,092,274 ..... c 27 N78-31232 *
US-PATENT-4,092,466 ..... c 27 N78-32256 *
US-PATENT-4,092,466 ..... c 27 N80-10358 *
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US-PATENT-4,092,617 ..... c 33 N78-32340 *
US-PATENT-4,092,633 ..... c 54 N78-32720 *
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US-PATENT-4,092,712 ..... c 33 N78-32341 *

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US-PATENT-4,093,156 ..... c 05 N78-32086 *
US-PATENT-4,093,354 ..... c 73 N78-32848 *
US-PATENT-4,093,382 ..... c 38 N78-32447 *
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US-PATENT-4,094,758 ..... c 26 N78-32229 *
US-PATENT-4,094,775 ..... c 52 N80-14687 *
US-PATENT-4,094,862 ..... c 27 N78-32261 *
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US-PATENT-4,099,799 ..... c 37 N79-10418 *
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US-PATENT-4,100,531 ..... c 32 N79-10263 *
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US-PATENT-4,101,780 ..... c 35 N79-10389 *
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US-PATENT-4,104,091 ..... c 44 N79-11468 *
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US-PATENT-4,105,517 ..... c 44 N79-11470 *
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US-PATENT-4,106,587 ..... c 71 N79-14871 *
US-PATENT-4,106,687 ..... c 37 N79-13364 *
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US-PATENT-4,110,703 ..... c 36 N79-18307 *
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US-PATENT-4,111,058 ..... c 35 N79-14347 *
US-PATENT-4,111,068 ..... c 37 N79-14382 *
US-PATENT-4,111,184 ..... c 44 N79-14526 *
US-PATENT-4,111,718 ..... c 35 N79-14346 *
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US-PATENT-4,111,775 ..... c 76 N79-14906 *
US-PATENT-4,111,851 ..... c 24 N79-14156 *
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US-PATENT-4,112,497 ..... c 32 N79-14267 *
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US-PATENT-4,118,701 ..... c 32 N79-10264 *
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US-PATENT-4,122,833 ..... c 44 N79-11471 *
US-PATENT-4,122,991 ..... c 18 N79-11108 *
US-PATENT-4,123,355 ..... c 45 N79-12584 *
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US-PATENT-4,135,851 ..... c 37 N82-19540 *
US-PATENT-4,136,211 ..... c 24 N79-17916 *
US-PATENT-4,137,010 ..... c 05 N79-17847 *
US-PATENT-4,137,365 ..... c 27 N79-18052 *
US-PATENT-4,139,291 ..... c 74 N79-20856 *
US-PATENT-4,139,806 ..... c 71 N79-20827 *
US-PATENT-4,139,839 ..... c 60 N79-20751 *
US-PATENT-4,139,862 ..... c 32 N79-20297 *
US-PATENT-4,140,972 ..... c 32 N79-20296 *
US-PATENT-4,141,219 ..... c 34 N79-20335 *
US-PATENT-4,141,224 ..... c 34 N79-20336 *
US-PATENT-4,141,259 ..... c 37 N79-20377 *
US-PATENT-4,142,101 ..... c 74 N79-20857 *
US-PATENT-4,142,119 ..... c 33 N79-20314 *
US-PATENT-4,143,314 ..... c 20 N79-20179 *
US-PATENT-4,145,058 ..... c 37 N79-22475 *
US-PATENT-4,145,255 ..... c 25 N79-22235 *
US-PATENT-4,145,524 ..... c 27 N79-22300 *
US-PATENT-4,145,933 ..... c 39 N79-22537 *
US-PATENT-4,146,180 ..... c 37 N79-22474 *
US-PATENT-4,146,367 ..... c 25 N81-33246 *
US-PATENT-4,146,409 ..... c 26 N79-22271 *
US-PATENT-4,148,031 ..... c 32 N79-24210 *
US-PATENT-4,148,295 ..... c 44 N79-23481 *
US-PATENT-4,148,375 ..... c 46 N79-22679 *
US-PATENT-4,148,452 ..... c 08 N79-23097 *
US-PATENT-4,148,962 ..... c 24 N79-24062 *
US-PATENT-4,149,034 ..... c 71 N79-23753 *
US-PATENT-4,149,233 ..... c 33 N79-24257 *
US-PATENT-4,149,278 ..... c 54 N79-24652 *
US-PATENT-4,149,423 ..... c 32 N79-24203 *
US-PATENT-4,149,521 ..... c 44 N79-24433 *
US-PATENT-4,149,665 ..... c 44 N79-24431 *
US-PATENT-4,149,817 ..... c 44 N79-24432 *
US-PATENT-4,149,938 ..... c 25 N79-24073 *
US-PATENT-4,150,425 ..... c 33 N79-24254 *
US-PATENT-4,151,086 ..... c 34 N79-24285 *
US-PATENT-4,151,456 ..... c 33 N79-23345 *
US-PATENT-4,151,612 ..... c 54 N79-24651 *
US-PATENT-4,151,800 ..... c 24 N79-25142 *
US-PATENT-4,152,194 ..... c 76 N79-23798 *
US-PATENT-4,153,134 ..... c 46 N79-23555 *
US-PATENT-4,153,476 ..... c 44 N79-25482 *
US-PATENT-4,153,818 ..... c 32 N79-23310 *
US-PATENT-4,154,084 ..... c 43 N79-25443 *
US-PATENT-4,154,228 ..... c 52 N79-27836 *
US-PATENT-4,154,230 ..... c 52 N79-26771 *
US-PATENT-4,154,256 ..... c 05 N79-24976 *
US-PATENT-4,154,501 ..... c 33 N81-29342 *
US-PATENT-4,154,912 ..... c 44 N79-25481 *
US-PATENT-4,155,475 ..... c 24 N79-25143 *
US-PATENT-4,156,309 ..... c 44 N79-26475 *
US-PATENT-4,156,548 ..... c 35 N79-26372 *
US-PATENT-4,156,752 ..... c 15 N79-26100 *
US-PATENT-4,156,971 ..... c 43 N79-26439 *
US-PATENT-4,157,655 ..... c 43 N80-14423 *
US-PATENT-4,157,718 ..... c 52 N80-14684 *
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US-PATENT-4,158,742 ..... c 12 N79-26075 *
US-PATENT-4,158,775 ..... c 72 N80-14877 *
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US-PATENT-4,159,634 ..... c 37 N79-28550 *
US-PATENT-4,160,254 ..... c 33 N79-28416 *
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US-PATENT-4,160,601 ..... c 35 N79-28527 *
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US-PATENT-4,162,701 ..... c 34 N79-31523 *
US-PATENT-4,162,928 ..... c 44 N79-31753 *
US-PATENT-4,163,678 ..... c 44 N79-31752 *
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US-PATENT-4,164,718 ..... c 32 N80-14281 *
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US-PATENT-4,166,170 ..... c 27 N79-33316 *
US-PATENT-4,166,170 ..... c 27 N81-14078 *
US-PATENT-4,166,959 ..... c 74 N79-34011 *
US-PATENT-4,167,111 ..... c 46 N80-10709 *
US-PATENT-4,168,287 ..... c 27 N80-10358 *
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US-PATENT-4,168,706 ..... c 54 N80-10799 *
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US-PATENT-4,170,987 ..... c 52 N81-27783 *
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US-PATENT-4,172,883 ..... c 26 N80-14229 *
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US-PATENT-4,173,820 ..... c 44 N80-14474 *
US-PATENT-4,175,249 ..... c 44 N80-14472 *
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US-PATENT-4,176,360 ..... c 18 N80-14183 *
US-PATENT-4,176,662 ..... c 52 N80-16725 *
US-PATENT-4,176,950 ..... c 36 N80-16321 *
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US-PATENT-4,181,589 ..... c 51 N80-16715 *
US-PATENT-4,182,158 ..... c 35 N80-18358 *
US-PATENT-4,183,217 ..... c 20 N80-18097 *
US-PATENT-4,184,072 ..... c 44 N80-18552 *
US-PATENT-4,184,111 ..... c 44 N80-18551 *
US-PATENT-4,184,149 ..... c 06 N80-18036 *
US-PATENT-4,184,155 ..... c 43 N80-18498 *
US-PATENT-4,184,327 ..... c 07 N80-18039 *
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US-PATENT-4,184,472 ..... c 76 N80-18951 *
US-PATENT-4,184,491 ..... c 52 N80-18690 *
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US-PATENT-4,190,626 ..... c 24 N81-29163 *
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US-PATENT-4,191,505 ..... c 44 N80-21828 *
US-PATENT-4,191,893 ..... c 44 N80-29834 *
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US-PATENT-4,192,910 ..... c 44 N81-29524 *
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US-PATENT-4,193,693 ..... c 35 N80-20563 *
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US-PATENT-4,193,827 ..... c 28 N81-14103 *
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US-PATENT-4,195,244 ..... c 35 N80-20559 *
US-PATENT-4,195,279 ..... c 35 N80-20560 *
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US-PATENT-4,195,666 ..... c 37 N80-23654 *
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US-PATENT-4,196,619 ..... c 46 N80-24906 *
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US-PATENT-4,199,937 ..... c 44 N81-24519 *
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US-PATENT-4,204,544 ..... c 52 N80-27072 *
US-PATENT-4,204,899 ..... c 24 N80-26388 *
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US-PATENT-4,206,713 ..... c 31 N81-15154 *
US-PATENT-4,206,970 ..... c 74 N80-27185 *
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US-PATENT-4,207,024 ..... c 37 N82-19540 *
US-PATENT-4,209,393 ..... c 45 N82-11634 *
US-PATENT-4,209,561 ..... c 24 N81-13999 *
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US-PATENT-4,210,401 ..... c 35 N80-28687 *
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US-PATENT-4,210,622 ..... c 44 N80-24741 *
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US-PATENT-4,211,354 ..... c 24 N81-26179 *
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US-PATENT-4,213,131 ..... c 32 N80-28578 *
US-PATENT-4,213,684 ..... c 74 N81-17886 *
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US-PATENT-4,214,905 ..... c 24 N80-33482 *
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US-PATENT-4,215,592 ..... c 37 N80-32716 *
US-PATENT-4,216,186 ..... c 76 N80-32244 *
US-PATENT-4,216,542 ..... c 33 N81-15192 *
US-PATENT-4,217,165 ..... c 76 N80-32245 *
US-PATENT-4,217,633 ..... c 44 N81-12542 *
US-PATENT-4,218,280 ..... c 27 N80-32516 *
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US-PATENT-4,218,650 ..... c 33 N80-32650 *
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US-PATENT-4,218,685 ..... c 32 N81-14187 *
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US-PATENT-4,218,941 ..... c 37 N81-14319 *
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US-PATENT-4,222,098 ..... c 33 N81-14220 *
US-PATENT-4,225,102 ..... c 02 N81-14968 *
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US-PATENT-4,226,475 ..... c 43 N81-26509 *
US-PATENT-4,227,096 ..... c 33 N81-17348 *
US-PATENT-4,228,422 ..... c 33 N81-14221 *
US-PATENT-4,228,656 ..... c 37 N81-14318 *
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US-PATENT-4,229,196 ..... c 28 N81-14103 *
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US-PATENT-4,234,258 ..... c 25 N81-14015 *
US-PATENT-4,234,715 ..... c 25 N81-14016 *
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US-PATENT-4,240,256 ..... c 37 N81-17432 *
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US-PATENT-4,248,083 ..... c 35 N81-19426 *
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US-PATENT-4,262,198 ..... c 74 N83-19597 *
US-PATENT-4,262,206 ..... c 74 N81-24900 *
US-PATENT-4,262,258 ..... c 33 N81-27396 *
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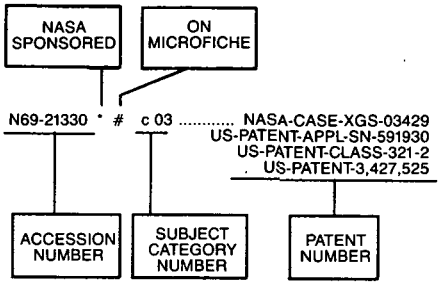
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US-PATENT-4,445,378 ..... c 35 N84-22933 *
US-PATENT-4,446,199 ..... c 26 N84-33555 *
US-PATENT-4,446,396 ..... c 35 N84-22932 *
US-PATENT-4,446,459 ..... c 60 N84-28492 *
US-PATENT-4,446,556 ..... c 36 N84-28065 *
US-PATENT-4,446,757 ..... c 37 N84-28084 *
US-PATENT-4,447,251 ..... c 71 N84-28568 *

US-PATENT-4,447,943 ..... c 52 N84-28389 *
US-PATENT-4,448,408 ..... c 37 N84-28083 *
US-PATENT-4,449,370 ..... c 37 N84-33808 *
US-PATENT-4,449,400 ..... c 47 N84-28292 *
US-PATENT-4,449,514 ..... c 44 N84-28204 *
US-PATENT-4,449,894 ..... c 37 N84-28081 *
US-PATENT-4,450,268 ..... c 27 N84-27884 *
US-PATENT-4,450,447 ..... c 32 N84-27951 *
US-PATENT-4,451,017 ..... c 18 N84-27787 *
US-PATENT-4,451,496 ..... c 26 N84-27855 *
US-PATENT-4,452,088 ..... c 24 N84-27829 *
US-PATENT-4,452,412 ..... c 16 N84-27784 *
US-PATENT-4,453,163 ..... c 06 N84-27733 *
US-PATENT-4,454,611 ..... c 54 N84-28484 *
US-PATENT-4,454,649 ..... c 44 N84-28205 *
US-PATENT-4,454,753 ..... c 09 N84-27749 *
US-PATENT-4,455,418 ..... c 27 N84-27885 *
US-PATENT-4,455,418 ..... c 25 N85-28982 *
US-PATENT-4,455,532 ..... c 72 N84-28575 *
US-PATENT-4,455,680 ..... c 32 N84-27952 *
US-PATENT-4,456,208 ..... c 27 N84-27886 *
US-PATENT-4,456,708 ..... c 51 N84-28361 *
US-PATENT-4,458,418 ..... c 37 N84-28085 *
US-PATENT-4,458,554 ..... c 37 N84-28082 *
US-PATENT-4,459,083 ..... c 02 N84-28732 *
US-PATENT-4,459,470 ..... c 27 N84-33589 *
US-PATENT-4,459,528 ..... c 33 N84-27975 *
US-PATENT-4,459,562 ..... c 33 N84-27974 *
US-PATENT-4,462,871 ..... c 76 N84-35112 * #
US-PATENT-4,463,357 ..... c 46 N85-21846 *
US-PATENT-4,463,465 ..... c 03 N84-33394 *
US-PATENT-4,463,606 ..... c 71 N85-22105 *
US-PATENT-4,464,710 ..... c 33 N84-33663 *
US-PATENT-4,466,242 ..... c 20 N85-21256 *
US-PATENT-4,466,667 ..... c 35 N84-33768 *
US-PATENT-4,469,552 ..... c 76 N84-35113 *
US-PATENT-4,469,942 ..... c 35 N84-33767 *
US-PATENT-4,469,998 ..... c 33 N84-33661 *
US-PATENT-4,470,293 ..... c 37 N84-33807 *
US-PATENT-4,470,403 ..... c 44 N84-34792 *
US-PATENT-4,471,357 ..... c 32 N84-34651 *
US-PATENT-4,472,473 ..... c 18 N84-33450 *
US-PATENT-4,472,716 ..... c 35 N84-33769 *
US-PATENT-4,472,728 ..... c 35 N84-33765 *
US-PATENT-4,473,259 ..... c 37 N85-20337 *
US-PATENT-4,473,674 ..... c 24 N84-34571 *
US-PATENT-4,473,792 ..... c 33 N84-33660 *
US-PATENT-4,474,062 ..... c 06 N84-34443 *
US-PATENT-4,474,180 ..... c 52 N84-34913 *
US-PATENT-4,474,471 ..... c 35 N84-34705 *
US-PATENT-4,474,975 ..... c 25 N85-21280 *
US-PATENT-4,475,063 ..... c 33 N85-21491 *
US-PATENT-4,475,385 ..... c 09 N84-34448 *
US-PATENT-4,475,527 ..... c 37 N85-21650 *
US-PATENT-4,475,921 ..... c 71 N85-22104 *
US-PATENT-4,478,879 ..... c 44 N85-20530 *
US-PATENT-4,479,053 ..... c 74 N85-22139 *
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US-PATENT-4,479,560 ..... c 35 N85-20294 *
US-PATENT-4,481,570 ..... c 60 N85-21992 *
US-PATENT-4,482,778 ..... c 44 N85-21768 *
US-PATENT-4,482,779 ..... c 33 N85-21492 *
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US-PATENT-4,483,639 ..... c 37 N85-21649 *
US-PATENT-4,483,817 ..... c 25 N85-21279 *
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US-PATENT-4,485,151 ..... c 24 N85-35233 *
US-PATENT-4,485,670 ..... c 34 N85-21568 *
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US-PATENT-4,488,663 ..... c 35 N85-21595 *
US-PATENT-4,489,027 ..... c 27 N85-20124 *
US-PATENT-4,489,239 ..... c 36 N85-21631 *
US-PATENT-4,489,243 ..... c 44 N85-21769 *
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US-PATENT-4,490,229 ..... c 31 N85-20153 *
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US-PATENT-4,493,553 ..... c 36 N85-21639 *
US-PATENT-4,495,044 ..... c 24 N85-21267 *
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US-PATENT-4,495,520 ..... c 32 N85-21427 *
US-PATENT-4,496,122 ..... c 05 N85-21147 *
US-PATENT-4,496,701 ..... c 27 N85-21347 *
US-PATENT-4,497,540 ..... c 74 N85-23396 *
US-PATENT-4,497,935 ..... c 27 N85-21349 *
US-PATENT-4,497,939 ..... c 27 N85-21351 *
US-PATENT-4,497,940 ..... c 27 N85-21352 *
US-PATENT-4,497,948 ..... c 27 N85-21350 *
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US-PATENT-4,498,333 ..... c 35 N85-21597 *
US-PATENT-4,499,260 ..... c 27 N85-21348 *
US-PATENT-4,499,424 ..... c 35 N85-21596 *
US-PATENT-4,499,470 ..... c 43 N85-21723 *
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US-PATENT-4,505,998 ..... c 33 N85-29144 *
US-PATENT-4,506,183 ..... c 34 N85-29179 *
US-PATENT-4,507,928 ..... c 31 N85-29082 *
US-PATENT-4,508,296 ..... c 18 N85-29991 *
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US-PATENT-4,509,130 ..... c 36 N85-29264 *
US-PATENT-4,509,132 ..... c 33 N85-34333 *
US-PATENT-4,509,548 ..... c 37 N85-34403 *
US-PATENT-4,510,277 ..... c 27 N85-34282 *
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US-PATENT-4,511,838 ..... c 76 N85-30923 *
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US-PATENT-4,512,661 ..... c 35 N85-30282 *
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US-PATENT-4,512,699 ..... c 37 N85-29285 *
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US-PATENT-4,513,750 ..... c 52 N85-30618 *
US-PATENT-4,513,810 ..... c 35 N85-29214 *
US-PATENT-4,514,137 ..... c 37 N85-29282 *
US-PATENT-4,514,143 ..... c 05 N85-29947 *
US-PATENT-4,514,178 ..... c 35 N85-29212 *
US-PATENT-4,514,557 ..... c 25 N85-28982 *
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US-PATENT-4,515,751 ..... c 35 N85-29213 *
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US-PATENT-4,516,435 ..... c 37 N85-29286 *
US-PATENT-4,517,472 ..... c 33 N85-29147 *
US-PATENT-4,517,505 ..... c 37 N85-30333 *
US-PATENT-4,517,530 ..... c 33 N85-29143 *
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US-PATENT-4,520,601 ..... c 37 N85-30335 *
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US-PATENT-4,522,661 ..... c 76 N85-30922 *
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US-PATENT-4,523,682 ..... c 71 N85-30765 *
US-PATENT-4,523,741 ..... c 37 N85-29284 *
US-PATENT-4,523,810 ..... c 74 N85-29749 *
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US-PATENT-4,527,910 ..... c 37 N85-33490 *
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US-PATENT-4,528,417 ..... c 44 N85-34441 *
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US-PATENT-4,529,358 ..... c 34 N85-33433 *
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US-PATENT-4,533,242 ..... c 74 N85-34629 *
US-PATENT-4,534,166 ..... c 07 N85-35195 *
US-PATENT-4,535,033 ..... c 24 N85-35233 *
US-PATENT-4,535,035 ..... c 26 N85-35267 *
US-PATENT-4,535,636 ..... c 35 N85-34375 *
US-PATENT-4,536,114 ..... c 37 N85-34401 *
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US-PATENT-4,537,554 ..... c 85 N85-34722 *
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US-PATENT-4,538,446 ..... c 34 N86-12547 *
US-PATENT-4,538,778 ..... c 08 N85-35200 *
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US-PATENT-4,540,986 ..... c 04 N86-19304 *
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US-PATENT-4,542,858 ..... c 33 N86-20669 *
US-PATENT-4,542,963 ..... c 74 N86-20125 *
US-PATENT-4,543,295 ..... c 27 N86-20561 *
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US-PATENT-4,543,442 ..... c 76 N86-20150 *
US-PATENT-4,544,025 ..... c 35 N86-20750 *
US-PATENT-4,544,068 ..... c 35 N86-20751 *
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US-PATENT-4,546,248 ..... c 32 N86-20647 *
US-PATENT-4,547,121 ..... c 37 N86-20789 *
US-PATENT-4,547,686 ..... c 33 N86-20672 *
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US-PATENT-4,553,393 ..... c 37 N86-19604 *
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US-PATENT-4,557,149 ..... c 35 N86-19581 *
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US-PATENT-4,565,886 ..... c 27 N86-21675 *
US-PATENT-4,566,447 ..... c 54 N86-22112 *
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US-PATENT-4,567,348 ..... c 37 N86-21850 *
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US-PATENT-4,582,289 ..... c 37 N87-21333 *
US-PATENT-4,582,590 ..... c 25 N86-25428 *
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US-PATENT-4,604,181 ..... c 27 N86-32569 *
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US-PATENT-4,604,903 ..... c 35 N86-32696 *
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US-PATENT-4,666,086 ..... c 37 N87-24689 *
US-PATENT-4,666,561 ..... c 25 N88-23846 *
US-PATENT-4,668,589 ..... c 27 N87-25469 *
US-PATENT-4,669,354 ..... c 37 N87-23983 *
US-PATENT-4,669,836 ..... c 52 N87-24874 *
US-PATENT-4,669,958 ..... c 08 N87-23631 *
US-PATENT-4,670,565 ..... c 27 N87-23751 *
US-PATENT-4,672,202 ..... c 37 N87-23982 *
US-PATENT-4,675,379 ..... c 27 N87-24564 *
US-PATENT-4,675,563 ..... c 33 N87-23904 *
US-PATENT-4,675,880 ..... c 32 N87-25511 *
US-PATENT-4,676,110 ..... c 39 N87-25601 *
US-PATENT-4,676,846 ..... c 26 N87-28647 *
US-PATENT-4,676,853 ..... c 37 N87-23981 *
US-PATENT-4,676,962 ..... c 23 N87-23698 *
US-PATENT-4,677,629 ..... c 36 N87-23960 *
US-PATENT-4,677,636 ..... c 36 N87-23961 *
US-PATENT-4,677,642 ..... c 35 N87-23944 *
US-PATENT-4,677,803 ..... c 31 N87-25492 *
US-PATENT-4,678,438 ..... c 14 N87-25344 *
US-PATENT-4,680,897 ..... c 31 N87-25491 *
US-PATENT-4,681-818 ..... c 26 N87-25455 *
US-PATENT-4,681,142 ..... c 37 N87-25573 *
US-PATENT-4,681,437 ..... c 76 N87-25862 *
US-PATENT-4,682,006 ..... c 74 N87-25843 *
US-PATENT-4,682,053 ..... c 36 N87-25567 *
US-PATENT-4,682,225 ..... c 17 N87-25348 *
US-PATENT-4,682,343 ..... c 33 N87-25531 *
US-PATENT-4,682,494 ..... c 09 N87-25334 *
US-PATENT-4,682,745 ..... c 37 N87-25582 *
US-PATENT-4,683,809 ..... c 24 N87-27742 * #
US-PATENT-4,684,156 ..... c 18 N87-27713 *
US-PATENT-4,684,258 ..... c 36 N87-28006 *
US-PATENT-4,684,424 ..... c 74 N87-28416 *
US-PATENT-4,685,535 ..... c 54 N87-29118 *
US-PATENT-4,687,048 ..... c 34 N87-28867 *
US-PATENT-4,687,444 ..... c 82 N87-29372 *
US-PATENT-4,687,964 ..... c 33 N87-28832 *
US-PATENT-4,688,422 ..... c 35 N87-28884 *
US-PATENT-4,689,188 ..... c 27 N87-28656 *
US-PATENT-4,689,421 ..... c 23 N87-28605 *
US-PATENT-4,689,522 ..... c 33 N87-28831 *
US-PATENT-4,690,353 ..... c 33 N87-28833 *
US-PATENT-4,695,610 ..... c 27 N87-28657 *
US-PATENT-4,696,808 ..... c 76 N87-29360 *
US-PATENT-4,697,425 ..... c 31 N88-14223 *
US-PATENT-4,697,922 ..... c 36 N88-14350 *
US-PATENT-4,698,028 ..... c 33 N88-14270 *
US-PATENT-4,698,484 ..... c 37 N88-14362 *
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US-PATENT-4,704,197 ..... c 25 N88-24732 *
US-PATENT-4,706,387 ..... c 37 N88-14361 *
US-PATENT-4,706,910 ..... c 02 N88-14071 *
US-PATENT-4,708,280 ..... c 37 N88-14359 *
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US-PATENT-4,708,330 ..... c 37 N88-14360 *
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US-PATENT-4,710,618 ..... c 44 N88-14492 *
US-PATENT-4,711,697 ..... c 76 N88-14835 *
US-PATENT-4,711,857 ..... c 76 N88-14836 *
US-PATENT-4,711,932 ..... c 27 N88-18725 *
US-PATENT-4,713,275 ..... c 24 N88-18628 *
US-PATENT-4,718,281 ..... c 35 N88-23967 *
US-PATENT-4,720,139 ..... c 37 N88-23982 *
US-PATENT-4,723,096 ..... c 33 N88-23942 *
US-PATENT-4,723,800 ..... c 37 N88-23979 *
US-PATENT-4,725,106 ..... c 54 N88-24163 *
US-PATENT-4,726,890 ..... c 76 N88-24543 *
US-PATENT-4,727,751 ..... c 02 N88-23759 *
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US-PATENT-4,731,211 ..... c 27 N88-23894 *
US-PATENT-4,732,353 ..... c 08 N88-23808 *
US-PATENT-4,735,381 ..... c 05 N88-23765 *
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US-PATENT-4,736,676 ..... c 37 N88-23981 *
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US-PATENT-4,736,927 ..... c 35 N88-24927 *
US-PATENT-4,738,137 ..... c 35 N88-23966 *
US-PATENT-4,738,583 ..... c 18 N88-23828 *
US-PATENT-4,738,831 ..... c 76 N88-24544 *
US-PATENT-4,740,264 ..... c 76 N88-24545 *
US-PATENT-4,742,232 ..... c 72 N88-24253 *
US-PATENT-4,748,263 ..... c 23 N88-24692 *
US-PATENT-4,749,839 ..... c 37 N88-23980 *
US-PATENT-4,750,031 ..... c 33 N88-23941 *
US-PATENT-4,750,144 ..... c 60 N88-24169 *
US-PATENT-4,750,543 ..... c 34 N88-23958 *
US-PATENT-4,752,372 ..... c 25 N88-23845 *
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US-PATENT-4,757,315 ..... c 32 N88-26568 *
US-PATENT-4,757,767 ..... c 18 N88-26398 *
US-PATENT-4,758,380 ..... c 23 N88-26404 *
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US-PATENT-4,763,762 ..... c 37 N88-29181 *
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US-PATENT-4,765,187 ..... c 35 N88-29150 *
US-PATENT-4,765,396 ..... c 34 N88-29133 *
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US-PATENT-4,766,533 ..... c 60 N88-29310 *
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US-PATENT-4,770,038 ..... c 35 N89-14407 *
US-PATENT-4,770,232 ..... c 35 N89-12048 *
US-PATENT-4,770,238 ..... c 34 N89-14392 *
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US-PATENT-4,771,823 ..... c 31 N89-12785 *
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US-PATENT-4,772,175 ..... c 18 N89-12621 *
US-PATENT-4,772,785 ..... c 74 N89-14077 *
US-PATENT-4,772,893 ..... c 32 N89-11961 *
US-PATENT-4,773,266 ..... c 71 N89-13236 *
US-PATENT-4,773,620 ..... c 05 N89-11738 *
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US-PATENT-4,776,531 ..... c 02 N89-14224 *
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US-PATENT-4,777,656 ..... c 32 N89-14374 *
US-PATENT-4,777,823 ..... c 35 N89-14422 *
US-PATENT-4,778,268 ..... c 52 N89-16256 *
US-PATENT-4,779,222 ..... c 33 N89-14384 *
US-PATENT-4,779,428 ..... c 31 N89-14351 *
US-PATENT-4,780,276 ..... c 26 N89-14303 *
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US-PATENT-4,783,994 ..... c 35 N89-14423 *
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US-PATENT-4,788,271 ..... c 27 N89-14337 *
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US-PATENT-4,798,433 ..... c 74 N89-25689 *
US-PATENT-4,800,756 ..... c 71 N90-12289 *
US-PATENT-4,805,368 ..... c 18 N89-28554 *
US-PATENT-4,807,834 ..... c 18 N89-25266 *
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US-PATENT-4,810,094 ..... c 35 N89-26202 *
US-PATENT-4,810,438 ..... c 27 N89-29539 *
US-PATENT-4,811,033 ..... c 32 N89-25363 *
US-PATENT-4,815,279 ..... c 20 N89-25279 *
US-PATENT-4,818,868 ..... c 72 N89-29169 *
US-PATENT-4,819,064 ..... c 32 N89-28676 *
US-PATENT-4,819,438 ..... c 25 N90-11824 *
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US-PATENT-4,823,074 ..... c 33 N89-29681 *
US-PATENT-4,823,299 ..... c 33 N89-28713 *
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US-PATENT-4,833,233 ..... c 52 N90-20616 *
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US-PATENT-4,836,707 ..... c 37 N90-17154 *
US-PATENT-4,837,300 ..... c 27 N90-16950 *
US-PATENT-4,838,346 ..... c 34 N90-20323 *
US-PATENT-4,839,046 ..... c 51 N91-14703 *
US-PATENT-4,839,121 ..... c 31 N90-19425 *
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US-PATENT-4,839,489 ..... c 37 N90-19602 *
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US-PATENT-4,840,496 ..... c 36 N90-17132 *
US-PATENT-4,842,223 ..... c 18 N90-19278 *
US-PATENT-4,842,224 ..... c 18 N90-16860 *
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US-PATENT-4,843,439 ..... c 35 N90-17118 *
US-PATENT-4,843,440 ..... c 33 N90-20282 *
US-PATENT-4,843,554 ..... c 09 N90-20096 *
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US-PATENT-4,845,728 ..... c 60 N90-21525 *
US-PATENT-4,845,993 ..... c 09 N91-14357 *
US-PATENT-4,846,854 ..... c 31 N90-20254 *
US-PATENT-4,847,502 ..... c 35 N90-20351 *
US-PATENT-4,847,837 ..... c 62 N90-19776 *
US-PATENT-4,848,153 ..... c 34 N90-19534 *
US-PATENT-4,848,987 ..... c 29 N90-20236 *
US-PATENT-4,849,033 ..... c 76 N90-19884 *
US-PATENT-4,849,903 ..... c 33 N90-19492 *
US-PATENT-4,851,071 ..... c 31 N90-19427 *
US-PATENT-4,851,491 ..... c 27 N90-21177 *
US-PATENT-4,851,544 ..... c 23 N90-21118 *
US-PATENT-4,852,578 ..... c 52 N90-21519 *
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US-PATENT-4,858,857 ..... c 18 N90-20126 *
US-PATENT-4,858,979 ..... c 37 N90-20408 *
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US-PATENT-4,860,074 ..... c 35 N90-21358 *
US-PATENT-4,860,149 ..... c 33 N90-20320 *
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US-PATENT-4,863,553 ..... c 76 N90-20896 *
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US-PATENT-4,864,865 ..... c 37 N90-20409 *
US-PATENT-4,864,910 ..... c 37 N90-21390 *
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US-PATENT-4,868,818 ..... c 60 N90-21527 *

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US-PATENT-4,889,912 ..... c 27 N90-23545 *
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US-PATENT-4,890,915 ..... c 76 N90-24150 *
US-PATENT-4,891,591 ..... c 27 N90-23544 *
US-PATENT-4,894,554 ..... c 37 N90-23742 *
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US-PATENT-4,895,972 ..... c 27 N90-23546 *
US-PATENT-4,896,533 ..... c 35 N90-23707 *
US-PATENT-4,899,356 ..... c 38 N90-23756 *
US-PATENT-4,902,354 ..... c 09 N90-23415 *
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US-PATENT-4,902,647 ..... c 72 N91-14813 *
US-PATENT-4,902,769 ..... c 23 N91-27220 *
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US-PATENT-4,909,313 ..... c 34 N90-21999 *
US-PATENT-4,909,436 ..... c 35 N91-21496 *
US-PATENT-4,909,933 ..... c 29 N90-21209 *
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US-PATENT-4,917,332 ..... c 05 N91-14345 *
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US-PATENT-4,932,807 ..... c 37 N91-15544 *
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US-PATENT-4,936,309 ..... c 52 N91-14709 *
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US-PATENT-4,937,891 ..... c 54 N91-14723 *
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US-PATENT-4,945,549 ..... c 32 N91-14523 *
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US-PATENT-5,003,235 ..... c 37 N91-21539 *
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US-PATENT-3,038,175

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US-PATENT-CLASS-244-46
US-PATENT-3,028,122

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US-PATENT-3,016,863

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US-PATENT-3,208,272

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US-PATENT-CLASS-165-107
US-PATENT-CLASS-165-138
US-PATENT-CLASS-310-4
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US-PATENT-CLASS-128-275
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US-PATENT-CLASS-285-317
US-PATENT-CLASS-285-38
US-PATENT-CLASS-285-406
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US-PATENT-3,443,390

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US-PATENT-3,541,875

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US-PATENT-CLASS-220-9
US-PATENT-CLASS-52-249
US-PATENT-CLASS-52-404
US-PATENT-CLASS-62-45
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US-PATENT-CLASS-356-153
US-PATENT-CLASS-73-147
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US-PATENT-CLASS-343-872
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US-PATENT-CLASS-324-73
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US-PATENT-CLASS-317-60
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US-PATENT-CLASS-165-86
US-PATENT-3,347,309

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US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-310
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US-PATENT-CLASS-356-153
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US-PATENT-CLASS-307-261
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US-PATENT-CLASS-340-347DD
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US-PATENT-CLASS-62-56
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US-PATENT-CLASS-297-68
US-PATENT-CLASS-5-69
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US-PATENT-CLASS-33-204C
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US-PATENT-CLASS-356-32
US-PATENT-CLASS-73-95
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US-PATENT-CLASS-73-194F
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US-PATENT-CLASS-85-5B
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US-PATENT-CLASS-33-72
US-PATENT-CLASS-350-285
US-PATENT-CLASS-350-287
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US-PATENT-CLASS-308-5
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US-PATENT-CLASS-219-221
US-PATENT-CLASS-219-243
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US-PATENT-CLASS-250-49.5TE
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US-PATENT-CLASS-250-52
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US-PATENT-CLASS-239-265.43
US-PATENT-CLASS-60-271
US-PATENT-3,596,465
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US-PATENT-CLASS-343-6.8R
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US-PATENT-CLASS-325-10
US-PATENT-CLASS-325-13
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US-PATENT-CLASS-136-206
US-PATENT-CLASS-136-227
US-PATENT-CLASS-343-DIG.3
US-PATENT-CLASS-343-720
US-PATENT-CLASS-343-840
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US-PATENT-CLASS-72-307
US-PATENT-3,584,660

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US-PATENT-CLASS-337-354
US-PATENT-CLASS-337-359
US-PATENT-CLASS-337-75
US-PATENT-CLASS-60-23
US-PATENT-3,591,960

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US-PATENT-CLASS-350-1
US-PATENT-CLASS-350-312
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N72-13437* c 16 ..... NASA-CASE-MFS-20125
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US-PATENT-CLASS-178-6
US-PATENT-CLASS-250-203X
US-PATENT-CLASS-356-152
US-PATENT-3,603,686

N72-15098* # c 05 ..... NASA-CASE-MSC-13917-1
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N72-15986* c 03 ..... NASA-CASE-XGS-10010
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US-PATENT-CLASS-136-135
US-PATENT-CLASS-136-6
US-PATENT-3,607,401

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US-PATENT-CLASS-340-279
US-PATENT-CLASS-35-8
US-PATENT-3,609,740

N72-16172* c 10 ..... NASA-CASE-ARC-10269-1
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US-PATENT-CLASS-307-262
US-PATENT-CLASS-328-155
US-PATENT-3,614,475

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N72-16283* c 14 ..... NASA-CASE-GSC-10780-1
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US-PATENT-CLASS-82-24R
US-PATENT-3,608,409

N72-16329* c 15 ..... NASA-CASE-XLA-07829
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US-PATENT-CLASS-264-221
US-PATENT-CLASS-264-225
US-PATENT-CLASS-264-227
US-PATENT-3,608,046

N72-16330* c 15 ..... NASA-CASE-LAR-10203-1
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US-PATENT-CLASS-156-86
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US-PATENT-CLASS-23-88
US-PATENT-CLASS-23-97
US-PATENT-3,607,015

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US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-253PC
US-PATENT-CLASS-73-23.1
US-PATENT-3,607,076

N72-17095* c 06 ..... NASA-CASE-NPO-10774
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US-PATENT-CLASS-23-230
US-PATENT-CLASS-23-253
US-PATENT-CLASS-73-76
US-PATENT-3,607,080

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US-PATENT-CLASS-178-5.4
US-PATENT-CLASS-178-6.7
US-PATENT-3,603,722

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US-PATENT-3,603,798

N72-17153* c 09 ..... NASA-CASE-ARC-10105
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US-PATENT-CLASS-307-252F
US-PATENT-CLASS-307-252J
US-PATENT-CLASS-325-492
US-PATENT-CLASS-340-177
US-PATENT-3,603,946

N72-17154* c 09 ..... NASA-CASE-ERC-10139
US-PATENT-APPL-SN-889555
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US-PATENT-CLASS-336-178
US-PATENT-3,603,864

N72-17155* c 09 ..... NASA-CASE-NPO-11023
US-PATENT-APPL-SN-865274
US-PATENT-CLASS-330-18
US-PATENT-CLASS-330-40
US-PATENT-3,603,892

N72-17156* c 09 ..... NASA-CASE-NPO-10199
US-PATENT-APPL-SN-739391
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US-PATENT-CLASS-330-11
US-PATENT-CLASS-330-35
US-PATENT-3,609,230

N72-17157* c 09 ..... NASA-CASE-NPO-11253
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US-PATENT-CLASS-307-81
US-PATENT-CLASS-328-186
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N72-17171* c 10 ..... NASA-CASE-XAC-05462-2
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US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-176
US-PATENT-CLASS-333-70CR
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N72-17172* c 10 ..... NASA-CASE-ARC-10020
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US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-26
US-PATENT-CLASS-330-31
US-PATENT-CLASS-330-94
US-PATENT-3,605,032

N72-17173* c 10 ..... NASA-CASE-MFS-13130
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US-PATENT-CLASS-250-83.3UV
US-PATENT-CLASS-340-228.2
US-PATENT-3,609,364

N72-17183* c 11 ..... NASA-CASE-MFS-20509
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US-PATENT-3,602,920

N72-17323* c 14 ..... NASA-CASE-ERC-10248
US-PATENT-APPL-SN-868445
US-PATENT-CLASS-350-162
US-PATENT-CLASS-356-113
US-PATENT-CLASS-356-209
US-PATENT-CLASS-356-244
US-PATENT-3,603,690

N72-17324* c 14 ..... NASA-CASE-MFS-20596
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US-PATENT-CLASS-350-3.5
US-PATENT-3,605,519

N72-17325* c 14 ..... NASA-CASE-MSC-15158-1
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US-PATENT-CLASS-324-52
US-PATENT-3,609,535

N72-17326* c 14 ..... NASA-CASE-XMS-01994-1
US-PATENT-APPL-SN-814212
US-PATENT-CLASS-356-4
US-PATENT-3,603,683

N72-17327* c 14 ..... NASA-CASE-LEW-10281-1
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US-PATENT-CLASS-73-198
US-PATENT-3,605,495

N72-17328* c 14 ..... NASA-CASE-XLA-07813
US-PATENT-APPL-SN-791364
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US-PATENT-CLASS-250-41.9
US-PATENT-CLASS-250-49.5
US-PATENT-CLASS-250-71.5
US-PATENT-CLASS-250-83.3
US-PATENT-3,609,353

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N72-17450* c 15 ..... NASA-CASE-MSC-12279
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US-PATENT-CLASS-188-129
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N72-17451* c 15 ..... NASA-CASE-WLP-10002
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US-PATENT-CLASS-308-5
US-PATENT-CLASS-308-9
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N72-17452* c 15 ..... NASA-CASE-XLA-10322
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US-PATENT-3,608,365

N72-17453* c 15 ..... NASA-CASE-NPO-11177
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US-PATENT-3,605,424

N72-17454* c 15 ..... NASA-CASE-NPO-11059
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N72-17455* c 15 ..... NASA-CASE-NPO-11140
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US-PATENT-CLASS-200-64
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US-PATENT-CLASS-339-278M
US-PATENT-CLASS-339-46
US-PATENT-CLASS-89-1.811
US-PATENT-3,611,274

N72-17532* c 18 ..... NASA-CASE-MFS-13532
US-PATENT-APPL-SN-720546
US-PATENT-CLASS-106-292
US-PATENT-CLASS-106-299
US-PATENT-3,607,338

N72-17747* c 23 ..... NASA-CASE-ERC-10089
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US-PATENT-CLASS-340-174CT
US-PATENT-CLASS-340-174GA
US-PATENT-CLASS-340-174SC
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US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-589
US-PATENT-3,602,984

N72-17843* c 28 ..... NASA-CASE-NPO-10046
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US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-39.74
US-PATENT-3,603,092

N72-17873* c 30 ..... NASA-CASE-ARC-10134
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US-PATENT-CLASS-244-3.21
US-PATENT-3,603,532

N72-17947* c 33 ..... NASA-CASE-MSC-12143-1
US-PATENT-APPL-SN-791268
US-PATENT-CLASS-102-105
US-PATENT-CLASS-161-67
US-PATENT-CLASS-244-117
US-PATENT-3,603,260

N72-17948* c 33 ..... NASA-CASE-NPO-10828
US-PATENT-APPL-SN-873260
US-PATENT-CLASS-165-105
US-PATENT-3,603,382

N72-18184* c 08 ..... NASA-CASE-NPO-10629
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US-PATENT-CLASS-178-66
US-PATENT-CLASS-179-15
US-PATENT-CLASS-235-154
US-PATENT-CLASS-340-347DD
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US-PATENT-CLASS-346-23
US-PATENT-CLASS-352-84
US-PATENT-CLASS-95-1.1
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US-PATENT-CLASS-52-108
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N72-18766* c 28 ..... NASA-CASE-GSC-10640-1
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US-PATENT-CLASS-23-281
US-PATENT-CLASS-23-288
US-PATENT-CLASS-60-260
US-PATENT-3,603,093

N72-18859* c 31 ..... NASA-CASE-MSC-13281
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US-PATENT-CLASS-244-ISS
US-PATENT-CLASS-340-210
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US-PATENT-CLASS-136-79
US-PATENT-CLASS-136-81
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N72-20033* c 03 ..... NASA-CASE-NPO-10401
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US-PATENT-CLASS-356-222
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N72-20034* c 03 ..... NASA-CASE-LEW-11359-2
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US-PATENT-CLASS-136-175
US-PATENT-CLASS-136-83R
US-PATENT-3,635,765
N72-20096* c 05 ..... NASA-CASE-MSC-12411-1
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US-PATENT-CLASS-128-402
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US-PATENT-3,635,216
N72-20097* c 05 ..... NASA-CASE-MFS-20332
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US-PATENT-CLASS-137-81
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US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-58
US-PATENT-3,626,298
N72-20141* c 07 ..... NASA-CASE-ERC-10179
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US-PATENT-CLASS-329-162
US-PATENT-CLASS-332-51W
US-PATENT-CLASS-333-73W
US-PATENT-CLASS-343-772
US-PATENT-CLASS-343-773
US-PATENT-CLASS-343-786
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N72-20154*# c 07 ..... NASA-CASE-NPO-11243
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N72-20176* c 08 ..... NASA-CASE-NPO-11130
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US-PATENT-CLASS-235-92CC
US-PATENT-CLASS-235-92DE
US-PATENT-CLASS-235-92DM
US-PATENT-CLASS-235-92LG
US-PATENT-CLASS-235-92R
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US-PATENT-CLASS-340-347DD
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US-PATENT-CLASS-335-205
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N72-20200* c 09 ..... NASA-CASE-NPO-10694
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US-PATENT-CLASS-339-276T
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US-PATENT-APPL-SN-41430
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US-PATENT-CLASS-307-288
US-PATENT-CLASS-307-313
US-PATENT-CLASS-328-207
US-PATENT-CLASS-330-30D
US-PATENT-3,633,048
N72-20222* c 10 ..... NASA-CASE-XLA-11189
US-PATENT-APPL-SN-889375
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US-PATENT-CLASS-324-132
US-PATENT-3,638,114
N72-20223* c 10 ..... NASA-CASE-NPO-11133
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US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-16
US-PATENT-CLASS-328-166
US-PATENT-CLASS-328-20
US-PATENT-CLASS-328-38
US-PATENT-3,626,308
N72-20224* c 10 ..... NASA-CASE-NPO-11203
US-PATENT-APPL-SN-3696
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US-PATENT-CLASS-324-85
US-PATENT-CLASS-328-133
US-PATENT-CLASS-343-12
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N72-20225* c 10 ..... NASA-CASE-MSC-13407-1
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US-PATENT-CLASS-315-22
US-PATENT-CLASS-315-25
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N72-20244* c 11 ..... NASA-CASE-NPO-11210
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US-PATENT-CLASS-180-105E
US-PATENT-CLASS-318-308
US-PATENT-CLASS-318-327
US-PATENT-CLASS-318-376
US-PATENT-3,630,304
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US-PATENT-CLASS-356-138
US-PATENT-CLASS-356-152
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US-PATENT-APPL-SN-792623
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US-PATENT-CLASS-55-498
US-PATENT-CLASS-55-502
US-PATENT-CLASS-55-521
US-PATENT-3,650,095
N72-23497* c 15 ..... NASA-CASE-KSC-10242
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US-PATENT-CLASS-219-234
US-PATENT-CLASS-219-85
US-PATENT-CLASS-324-65R
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N72-23581* c 18 ..... NASA-CASE-GSC-10361-1
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N72-23695* c 23 ..... NASA-CASE-HQN-10541-3
US-PATENT-APPL-SN-822089
US-PATENT-CLASS-350-171
US-PATENT-3,606,522
N72-23809* c 28 ..... NASA-CASE-XNP-09461
US-PATENT-APPL-SN-670829
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US-PATENT-CLASS-239-433
US-PATENT-CLASS-239-543
US-PATENT-3,650,474
N72-23810* c 28 ..... NASA-CASE-NPO-11458
US-PATENT-APPL-SN-36926
US-PATENT-CLASS-60-266
US-PATENT-CLASS-60-271
US-PATENT-3,648,461
N72-24037* c 03 ..... NASA-CASE-GSC-11514-1
US-PATENT-APPL-SN-820453
US-PATENT-CLASS-117-201
US-PATENT-CLASS-136-89
US-PATENT-3,653,970
N72-24477* c 14 ..... NASA-CASE-ARC-10138-1
US-PATENT-APPL-SN-774733
US-PATENT-CLASS-250-83.3H
US-PATENT-CLASS-317-247
US-PATENT-CLASS-324-61R
US-PATENT-CLASS-73-355R
US-PATENT-3,657,644
N72-24522* c 15 ..... NASA-CASE-NPO-11036
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US-PATENT-CLASS-264-92
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N72-24753* c 25 ..... NASA-CASE-XNP-04167-2
US-PATENT-APPL-SN-866442
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US-PATENT-CLASS-313-212
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-111
US-PATENT-CLASS-315-326
US-PATENT-CLASS-315-358
US-PATENT-CLASS-331-94.5
US-PATENT-3,617,804
N72-25019* c 03 ..... NASA-CASE-NPO-10575
US-PATENT-APPL-SN-6615
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US-PATENT-CLASS-156-510
US-PATENT-3,654,036
N72-25020* c 03 ..... NASA-CASE-GSC-11211-1
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US-PATENT-CLASS-235-92T
US-PATENT-CLASS-307-141.8
US-PATENT-CLASS-320-48
US-PATENT-CLASS-324-29.5
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US-PATENT-APPL-SN-8650
US-PATENT-CLASS-214-90R
US-PATENT-3,666,120
N72-25119* c 05 ..... NASA-CASE-MSC-12397-1
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US-PATENT-CLASS-2-115
US-PATENT-CLASS-2-2.1
US-PATENT-3,660,851
N72-25120* c 05 ..... NASA-CASE-MSC-90153-2
US-PATENT-APPL-SN-844225
US-PATENT-CLASS-106-209
US-PATENT-CLASS-128-2.1
US-PATENT-CLASS-128-417
US-PATENT-CLASS-252-514
US-PATENT-CLASS-264-104
US-PATENT-3,665,064
N72-25121* c 05 ..... NASA-CASE-FRC-10029-2
US-PATENT-APPL-SN-78704
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-308
US-PATENT-CLASS-29-25.14
US-PATENT-CLASS-29-25.18
US-PATENT-CLASS-29-482
US-PATENT-CLASS-29-630A
US-PATENT-3,662,441
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US-PATENT-CLASS-128-2N
US-PATENT-3,662,744
N72-25146* c 06 ..... NASA-CASE-NPO-11322
US-PATENT-APPL-SN-87550
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-73-23.1
US-PATENT-3,666,942
N72-25147* c 06 ..... NASA-CASE-ARC-10325
US-PATENT-APPL-SN-63610
US-PATENT-CLASS-260-2.5FP
US-PATENT-3,663,464
N72-25148* c 06 ..... NASA-CASE-MFS-13994-2
US-PATENT-APPL-SN-870689
US-PATENT-CLASS-260-348SC
US-PATENT-3,660,434
N72-25149* c 06 ..... NASA-CASE-GSC-10565-1
US-PATENT-APPL-SN-822039
US-PATENT-CLASS-195-103.5R
US-PATENT-CLASS-195-28N
US-PATENT-CLASS-260-211.5
US-PATENT-3,660,240
N72-25150* c 06 ..... NASA-CASE-XLE-06774-2
US-PATENT-APPL-SN-5114
US-PATENT-CLASS-117-132
US-PATENT-CLASS-117-161
US-PATENT-CLASS-260-2.5
US-PATENT-CLASS-260-92.1
US-PATENT-3,666,741
N72-25151* c 06 ..... NASA-CASE-MFS-20979
US-PATENT-APPL-SN-100774
US-PATENT-CLASS-260-18S
US-PATENT-CLASS-260-448.2D
US-PATENT-CLASS-260-46.5E
US-PATENT-CLASS-260-46.5G
US-PATENT-CLASS-260-46.5P
US-PATENT-3,666,718
N72-25152* c 06 ..... NASA-CASE-NPO-10863-2
US-PATENT-APPL-SN-145026
US-PATENT-CLASS-260-92.1
US-PATENT-3,663,521
N72-25170* c 07 ..... NASA-CASE-LAR-10513-1
US-PATENT-APPL-SN-64723
US-PATENT-CLASS-333-7
US-PATENT-CLASS-333-81R
US-PATENT-CLASS-333-98P
US-PATENT-CLASS-333-98R
US-PATENT-CLASS-333-98S
US-PATENT-3,649,935
N72-25171* c 07 ..... NASA-CASE-MFS-21042

US-PATENT-APPL-SN-86417
US-PATENT-CLASS-102-34.4
US-PATENT-CLASS-325-114
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-6.5R
US-PATENT-3,667,044

N72-25172* c 07 ..... NASA-CASE-NPO-11358
US-PATENT-APPL-SN-116786
US-PATENT-CLASS-179-15BV
US-PATENT-CLASS-340-172.5
US-PATENT-3,665,417

N72-25173* c 07 ..... NASA-CASE-ERC-10324
US-PATENT-APPL-SN-54270
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-325-141
US-PATENT-CLASS-325-302
US-PATENT-CLASS-325-325
US-PATENT-CLASS-325-38
US-PATENT-CLASS-325-51
US-PATENT-CLASS-325-55
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-64
US-PATENT-CLASS-340-167
US-PATENT-3,665,313

N72-25174* c 07 ..... NASA-CASE-NPO-11264
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US-PATENT-CLASS-343-777
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-853
US-PATENT-3,665,481

N72-25206* c 08 ..... NASA-CASE-KSC-10397
US-PATENT-APPL-SN-25488
US-PATENT-CLASS-235-154
US-PATENT-CLASS-340-347DA
US-PATENT-3,648,275

N72-25207* c 08 ..... NASA-CASE-NPO-11161
US-PATENT-APPL-SN-889374
US-PATENT-CLASS-340-146.1
US-PATENT-CLASS-340-172.5
US-PATENT-3,648,256

N72-25208* c 08 ..... NASA-CASE-NPO-11338
US-PATENT-APPL-SN-89212
US-PATENT-CLASS-178-50
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-179-15FD
US-PATENT-CLASS-325-62
US-PATENT-CLASS-332-21
US-PATENT-3,659,053

N72-25209* c 08 ..... NASA-CASE-NPO-11194
US-PATENT-APPL-SN-63532
US-PATENT-CLASS-343-12R
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-6.5R
US-PATENT-3,659,292

N72-25210* c 08 ..... NASA-CASE-NPO-10636
US-PATENT-APPL-SN-77221
US-PATENT-CLASS-235-152
US-PATENT-CLASS-340-146.1AL
US-PATENT-3,662,337

N72-25247* c 09 ..... NASA-CASE-LAR-10163-1
US-PATENT-APPL-SN-73310
US-PATENT-CLASS-343-708
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-873
US-PATENT-3,653,052

N72-25248* c 09 ..... NASA-CASE-NPO-11342
US-PATENT-APPL-SN-89209
US-PATENT-CLASS-340-172.5
US-PATENT-CLASS-340-324A
US-PATENT-3,648,250

N72-25249* c 09 ..... NASA-CASE-GSC-10656-1
US-PATENT-APPL-SN-59969
US-PATENT-CLASS-321-2
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-323-17
US-PATENT-CLASS-323-22T
US-PATENT-3,621,372

N72-25250* c 09 ..... NASA-CASE-KSC-10565
US-PATENT-APPL-SN-98517
US-PATENT-CLASS-315-135
US-PATENT-CLASS-315-349
US-PATENT-CLASS-330-2
US-PATENT-CLASS-330-59
US-PATENT-CLASS-340-332
US-PATENT-3,659,148

N72-25251* c 09 ..... NASA-CASE-ERC-10048
US-PATENT-APPL-SN-10329
US-PATENT-CLASS-307-261
US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-2
US-PATENT-3,659,184

N72-25252* c 09 ..... NASA-CASE-ERC-10268
US-PATENT-APPL-SN-39342
US-PATENT-CLASS-321-11
US-PATENT-CLASS-321-18
US-PATENT-CLASS-321-19
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45ER
US-PATENT-CLASS-321-45R
US-PATENT-3,663,940

N72-25253* c 09 ..... NASA-CASE-GSC-11126-1
US-PATENT-APPL-SN-98640
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-47
US-PATENT-CLASS-331-113A
US-PATENT-3,663,941

N72-25254* c 09 ..... NASA-CASE-NPO-10760
US-PATENT-APPL-SN-129071
US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45R
US-PATENT-CLASS-331-113A
US-PATENT-3,663,944

N72-25255* c 09 ..... NASA-CASE-LAR-10620-1
US-PATENT-APPL-SN-125979
US-PATENT-CLASS-310-10
US-PATENT-CLASS-310-15
US-PATENT-3,663,843

N72-25256* c 09 ..... NASA-CASE-XLA-02609
US-PATENT-APPL-SN-41347
US-PATENT-CLASS-333-79
US-PATENT-CLASS-339-143R
US-PATENT-CLASS-339-147R
US-PATENT-3,663,929

N72-25257* c 09 ..... NASA-CASE-MSC-12395
US-PATENT-APPL-SN-134573
US-PATENT-CLASS-307-233
US-PATENT-CLASS-324-186
US-PATENT-CLASS-324-78D
US-PATENT-CLASS-328-136
US-PATENT-CLASS-328-140
US-PATENT-3,663,885

N72-25258* c 09 ..... NASA-CASE-LAR-10253-1
US-PATENT-APPL-SN-99175
US-PATENT-CLASS-307-88.3
US-PATENT-CLASS-330-4.5
US-PATENT-3,663,886

N72-25259* c 09 ..... NASA-CASE-GSC-10695-1
US-PATENT-APPL-SN-889422
US-PATENT-CLASS-117-200
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-198
US-PATENT-3,664,874

N72-25260* c 09 ..... NASA-CASE-NPO-11283
US-PATENT-APPL-SN-118270
US-PATENT-CLASS-310-4
US-PATENT-3,663,839

N72-25261* c 09 ..... NASA-CASE-ERC-10224
US-PATENT-APPL-SN-868775
US-PATENT-CLASS-29-492
US-PATENT-CLASS-29-497
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-502
US-PATENT-CLASS-29-589
US-PATENT-CLASS-29-628
US-PATENT-3,665,589

N72-25262* c 09 ..... NASA-CASE-NPO-11078
US-PATENT-APPL-SN-82280
US-PATENT-CLASS-307-103
US-PATENT-CLASS-307-83
US-PATENT-CLASS-323-48
US-PATENT-CLASS-323-82
US-PATENT-3,663,828

N72-25284* c 11 ..... NASA-CASE-LAR-10507-1
US-PATENT-APPL-SN-874177
US-PATENT-CLASS-195-127
US-PATENT-3,649,462

N72-25287* c 11 ..... NASA-CASE-LAR-10546-1
US-PATENT-APPL-SN-32664
US-PATENT-CLASS-287-54A
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-655
US-PATENT-3,665,670

N72-25288* c 11 ..... NASA-CASE-MFS-20434
US-PATENT-APPL-SN-55534
US-PATENT-CLASS-73-140
US-PATENT-CLASS-73-161
US-PATENT-3,665,758

N72-25292* c 12 ..... NASA-CASE-NPO-11556
US-PATENT-APPL-SN-82648
US-PATENT-CLASS-210-188
US-PATENT-CLASS-310-11
US-PATENT-3,648,083

N72-25323* c 13 ..... NASA-CASE-NPO-11373
US-PATENT-APPL-SN-81095
US-PATENT-CLASS-73-421.5R
US-PATENT-CLASS-73-422GC
US-PATENT-CLASS-73-422TC
US-PATENT-3,662,604

N72-25409* c 14 ..... NASA-CASE-ERC-10174
US-PATENT-APPL-SN-39344
US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-226
US-PATENT-CLASS-250-83.3UV
US-PATENT-CLASS-350-203
US-PATENT-3,657,549

N72-25410* c 14 ..... NASA-CASE-ERC-10292
US-PATENT-APPL-SN-45519
US-PATENT-CLASS-350-160R
US-PATENT-CLASS-73-515
US-PATENT-CLASS-73-521
US-PATENT-3,657,928

N72-25411* c 14 ..... NASA-CASE-MSC-15626-1
US-PATENT-APPL-SN-94374
US-PATENT-CLASS-116-114AH
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-492
US-PATENT-3,656,352

N72-25412* c 14 ..... NASA-CASE-MFS-15063
US-PATENT-APPL-SN-51477
US-PATENT-CLASS-178-DIG.8
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-340-227R
US-PATENT-3,659,043

N72-25413* c 14 ..... NASA-CASE-GSC-10879-1
US-PATENT-APPL-SN-889420
US-PATENT-CLASS-195-127
US-PATENT-3,666,631

N72-25414* c 14 ..... NASA-CASE-NPO-11311
US-PATENT-APPL-SN-57252
US-PATENT-CLASS-178-7.92
US-PATENT-CLASS-350-175FS
US-PATENT-3,663,753

N72-25428*# c 14 ..... NASA-CASE-HQN-10756-1
US-PATENT-APPL-SN-236052

N72-25447* c 15 ..... NASA-CASE-LEW-10489-1
US-PATENT-APPL-SN-889682
US-PATENT-CLASS-117-107
US-PATENT-CLASS-117-211
US-PATENT-CLASS-117-217
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.16D
US-PATENT-CLASS-29-599
US-PATENT-3,649,356

N72-25448* c 15 ..... NASA-CASE-LEW-10450-1
US-PATENT-APPL-SN-880271
US-PATENT-CLASS-75-0.5BB
US-PATENT-CLASS-75-206
US-PATENT-CLASS-75-213
US-PATENT-3,649,242

N72-25450* c 15 ..... NASA-CASE-NPO-11202
US-PATENT-APPL-SN-66004
US-PATENT-CLASS-285-DIG.21
US-PATENT-CLASS-285-3
US-PATENT-CLASS-285-316
US-PATENT-CLASS-285-33
US-PATENT-CLASS-339-45M
US-PATENT-CLASS-339-91B
US-PATENT-3,656,781

N72-25451* c 15 ..... NASA-CASE-NPO-10606
US-PATENT-APPL-SN-8636
US-PATENT-CLASS-251-360
US-PATENT-3,658,295

N72-25452* c 15 ..... NASA-CASE-LEW-10965-1
US-PATENT-APPL-SN-876588
US-PATENT-CLASS-117-124C
US-PATENT-CLASS-117-152
US-PATENT-CLASS-117-16R
US-PATENT-CLASS-117-37
US-PATENT-CLASS-117-47R
US-PATENT-CLASS-117-62
US-PATENT-CLASS-117-93.3
US-PATENT-CLASS-204-157.18AG
US-PATENT-CLASS-204-49
US-PATENT-CLASS-250-65F
US-PATENT-CLASS-96-36.2
US-PATENT-3,658,569

N72-25453* c 15 ..... NASA-CASE-KSC-10513
US-PATENT-APPL-SN-61535
US-PATENT-CLASS-187-1
US-PATENT-CLASS-187-20
US-PATENT-CLASS-187-95
US-PATENT-CLASS-254-190
US-PATENT-3,666,051

N72-25454* c 15 ..... NASA-CASE-MSC-12233-1
US-PATENT-APPL-SN-73422
US-PATENT-CLASS-52-169
US-PATENT-CLASS-52-173
US-PATENT-CLASS-52-594
US-PATENT-3,665,669

N72-25455* c 15 ..... NASA-CASE-NPO-11095
US-PATENT-APPL-SN-19585
US-PATENT-CLASS-239-424
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-39.74A
US-PATENT-3,662,547

N72-25456* c 15 ..... NASA-CASE-NPO-11222

US-PATENT-APPL-SN-59893
US-PATENT-CLASS-310-68
US-PATENT-CLASS-310-80
US-PATENT-CLASS-310-83
US-PATENT-3,660,704

N72-25457* c 15 ..... NASA-CASE-ERC-10325
US-PATENT-APPL-SN-43884
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158T
US-PATENT-3,665,307

N72-25485* c 16 ..... NASA-CASE-ERC-10283
US-PATENT-APPL-SN-39185
US-PATENT-CLASS-331-94.5
US-PATENT-CLASS-332-7.51
US-PATENT-3,659,225

N72-25539* c 18 ..... NASA-CASE-LEW-10424-2-2
US-PATENT-APPL-SN-15222
US-PATENT-CLASS-75-DIG.1
US-PATENT-CLASS-75-208
US-PATENT-CLASS-75-211
US-PATENT-CLASS-75-226
US-PATENT-3,653,882

N72-25540* c 18 ..... NASA-CASE-ERC-10364
US-PATENT-APPL-SN-55537
US-PATENT-CLASS-161-127
US-PATENT-CLASS-161-68
US-PATENT-CLASS-161-7
US-PATENT-CLASS-52-DIG.10
US-PATENT-CLASS-52-80
US-PATENT-3,663,347

N72-25541* c 18 ..... NASA-CASE-ERC-10363
US-PATENT-APPL-SN-57253
US-PATENT-CLASS-161-127
US-PATENT-CLASS-161-68
US-PATENT-CLASS-161-7
US-PATENT-CLASS-52-DIG.10
US-PATENT-CLASS-52-80
US-PATENT-3,663,346

N72-25595* c 21 ..... NASA-CASE-MSC-13397-1
US-PATENT-APPL-SN-59966
US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-244-23A
US-PATENT-3,662,973

N72-25619* c 23 ..... NASA-CASE-NPO-10634
US-PATENT-APPL-SN-112999
US-PATENT-CLASS-62-475
US-PATENT-CLASS-62-6
US-PATENT-CLASS-62-80
US-PATENT-CLASS-62-85
US-PATENT-3,656,313

N72-25679* c 26 ..... NASA-CASE-XER-07895
US-PATENT-APPL-SN-651627
US-PATENT-CLASS-317-234J
US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-331-107G
US-PATENT-3,667,010

N72-25680* c 26 ..... NASA-CASE-ERC-10275
US-PATENT-APPL-SN-47061
US-PATENT-CLASS-324-92
US-PATENT-CLASS-324-96
US-PATENT-CLASS-340-324R
US-PATENT-CLASS-350-150
US-PATENT-CLASS-350-160R
US-PATENT-3,667,039

N72-25699* c 27 ..... NASA-CASE-NPO-12000
US-PATENT-APPL-SN-74861
US-PATENT-CLASS-149-19
US-PATENT-CLASS-149-20
US-PATENT-CLASS-149-36
US-PATENT-CLASS-149-92
US-PATENT-3,658,608

N72-25842* c 31 ..... NASA-CASE-MSC-12372-1
US-PATENT-APPL-SN-64391
US-PATENT-CLASS-95-12.5
US-PATENT-3,662,661

N72-25877* c 32 ..... NASA-CASE-LAR-10270-1
US-PATENT-APPL-SN-60881
US-PATENT-CLASS-73-100
US-PATENT-CLASS-73-15.6
US-PATENT-3,665,751

N72-25911* c 33 ..... NASA-CASE-LEW-10359
US-PATENT-APPL-SN-47063
US-PATENT-CLASS-102-105
US-PATENT-CLASS-60-200A
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-CLASS-62-467
US-PATENT-3,656,317

N72-25913* c 33 ..... NASA-CASE-XMS-09690
US-PATENT-APPL-SN-853641
US-PATENT-CLASS-73-15R
US-PATENT-3,665,750

N72-26031* c 03 ..... NASA-CASE-NPO-10753
US-PATENT-APPL-SN-844355
US-PATENT-CLASS-136-202
US-PATENT-3,666,566

N72-26371* c 15 ..... NASA-CASE-NPO-10244
US-PATENT-APPL-SN-43327
US-PATENT-CLASS-308-2A
US-PATENT-CLASS-73-136R
US-PATENT-3,664,185

N72-27053* c 03 ..... NASA-CASE-GSC-10344-1
US-PATENT-APPL-SN-785078
US-PATENT-CLASS-136-89
US-PATENT-3,672,999

N72-27102* c 05 ..... NASA-CASE-LAR-10365-1
US-PATENT-APPL-SN-3151
US-PATENT-CLASS-210-103
US-PATENT-CLASS-210-104
US-PATENT-CLASS-210-110
US-PATENT-CLASS-210-137
US-PATENT-3,670,890

N72-27103* c 05 ..... NASA-CASE-MSC-13648
US-PATENT-APPL-SN-87222
US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-417
US-PATENT-3,669,110

N72-27144* c 06 ..... NASA-CASE-NPO-10768-2
US-PATENT-APPL-SN-770398
US-PATENT-APPL-SN-99524
US-PATENT-CLASS-260-535H
US-PATENT-CLASS-260-77.5AP
US-PATENT-3,671,497

N72-27151* # c 06 ..... NASA-CASE-NPO-10767-2
US-PATENT-APPL-SN-241061

N72-27226* c 09 ..... NASA-CASE-LEW-10330-1
US-PATENT-APPL-SN-110402
US-PATENT-CLASS-336-198
US-PATENT-CLASS-336-220
US-PATENT-CLASS-336-60
US-PATENT-3,648,209

N72-27227* c 09 ..... NASA-CASE-KSC-10644
US-PATENT-APPL-SN-114849
US-PATENT-CLASS-307-118
US-PATENT-CLASS-307-92
US-PATENT-CLASS-340-240
US-PATENT-3,673,424

N72-27228* c 09 ..... NASA-CASE-NPO-10542
US-PATENT-APPL-SN-767741
US-PATENT-CLASS-310-4
US-PATENT-3,673,440

N72-27246* c 10 ..... NASA-CASE-ERC-10015-2
US-PATENT-APPL-SN-763744
US-PATENT-APPL-SN-97343
US-PATENT-CLASS-313-309
US-PATENT-CLASS-313-336
US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-36
US-PATENT-3,671,798

N72-27262* c 11 ..... NASA-CASE-MFS-20620
US-PATENT-APPL-SN-154935
US-PATENT-CLASS-73-117.1
US-PATENT-CLASS-73-432SD
US-PATENT-3,670,564

N72-27408* c 14 ..... NASA-CASE-NPO-11147
US-PATENT-APPL-SN-63195
US-PATENT-CLASS-324-79R
US-PATENT-CLASS-328-189
US-PATENT-CLASS-331-44
US-PATENT-3,670,241

N72-27409* c 14 ..... NASA-CASE-NPO-11201
US-PATENT-APPL-SN-77220
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-225
US-PATENT-CLASS-350-147
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-3,670,168

N72-27410* c 14 ..... NASA-CASE-XLE-05230
US-PATENT-APPL-SN-877717
US-PATENT-CLASS-136-233
US-PATENT-3,671,329

N72-27411* c 14 ..... NASA-CASE-MSC-12293-1
US-PATENT-APPL-SN-59956
US-PATENT-CLASS-250-205
US-PATENT-CLASS-315-151
US-PATENT-CLASS-315-156
US-PATENT-CLASS-315-158
US-PATENT-CLASS-315-297
US-PATENT-CLASS-315-307
US-PATENT-CLASS-315-310
US-PATENT-CLASS-315-311
US-PATENT-3,670,202

N72-27412* c 14 ..... NASA-CASE-MFS-20523
US-PATENT-APPL-SN-77786
US-PATENT-CLASS-73-103
US-PATENT-CLASS-73-71.6
US-PATENT-3,670,563

N72-27484* c 15 ..... NASA-CASE-NPO-10721
US-PATENT-APPL-SN-59968
US-PATENT-CLASS-248-188.4
US-PATENT-3,669,393

N72-27485* c 15 ..... NASA-CASE-XLA-09843
US-PATENT-APPL-SN-60876
US-PATENT-CLASS-83-522
US-PATENT-CLASS-83-562
US-PATENT-CLASS-83-563
US-PATENT-CLASS-83-588
US-PATENT-CLASS-83-8
US-PATENT-3,668,956

N72-27728* c 23 ..... NASA-CASE-ARC-10160-1
US-PATENT-APPL-SN-867842
US-PATENT-CLASS-178-DIG.20
US-PATENT-CLASS-178-6.5
US-PATENT-CLASS-350-138
US-PATENT-3,670,097

N72-27784* c 26 ..... NASA-CASE-LAR-10836-1
US-PATENT-APPL-SN-138227
US-PATENT-CLASS-350-161
US-PATENT-3,671,105

N72-27959* c 33 ..... NASA-CASE-LAR-10800-1
US-PATENT-APPL-SN-154094
US-PATENT-CLASS-73-35
US-PATENT-3,670,559

N72-28025* c 03 ..... NASA-CASE-NPO-10633
US-PATENT-APPL-SN-885521
US-PATENT-CLASS-165-20
US-PATENT-CLASS-165-3
US-PATENT-CLASS-62-93
US-PATENT-3,675,712

N72-28225* c 09 ..... NASA-CASE-MFS-20757
US-PATENT-APPL-SN-136006
US-PATENT-CLASS-339-176MF
US-PATENT-CLASS-339-218M
US-PATENT-CLASS-339-75MP
US-PATENT-CLASS-339-94M
US-PATENT-3,670,290

N72-28240* c 10 ..... NASA-CASE-ARC-10265-1
US-PATENT-APPL-SN-64709
US-PATENT-CLASS-324-41
US-PATENT-CLASS-340-258
US-PATENT-3,676,772

N72-28241* c 10 ..... NASA-CASE-GSC-10786-1
US-PATENT-APPL-SN-773072
US-PATENT-CLASS-330-29
US-PATENT-3,533,006

N72-28436* c 14 ..... NASA-CASE-XLA-06683
US-PATENT-APPL-SN-10827
US-PATENT-CLASS-33-1SA
US-PATENT-CLASS-33-75R
US-PATENT-3,675,332

N72-28437* c 14 ..... NASA-CASE-ERC-10081
US-PATENT-APPL-SN-877990
US-PATENT-CLASS-325-363
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-CLASS-73-355
US-PATENT-3,665,467

N72-28438* c 14 ..... NASA-CASE-XLA-04980-2
US-PATENT-APPL-SN-577548
US-PATENT-APPL-SN-763040
US-PATENT-CLASS-148-187
US-PATENT-3,549,435

N72-28495* c 15 ..... NASA-CASE-MFS-14405
US-PATENT-APPL-SN-73283
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-74-469
US-PATENT-3,631,737

N72-28496* c 15 ..... NASA-CASE-MFS-20433
US-PATENT-APPL-SN-114847
US-PATENT-CLASS-52-1
US-PATENT-CLASS-52-573
US-PATENT-3,675,376

N72-28521* c 16 ..... NASA-CASE-NPO-11437
US-PATENT-APPL-SN-63144
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-3,676,787

N72-28535* c 17 ..... NASA-CASE-XLE-06461-2
US-PATENT-APPL-SN-156778
US-PATENT-APPL-SN-853855
US-PATENT-CLASS-266-24
US-PATENT-3,675,910

N72-28536* c 17 ..... NASA-CASE-XLE-03940-2
US-PATENT-APPL-SN-539255
US-PATENT-APPL-SN-793657
US-PATENT-CLASS-29-182.5
US-PATENT-3,676,084

N72-28761* c 26 ..... NASA-CASE-NPO-11775
US-PATENT-APPL-SN-162230
US-PATENT-CLASS-29-570
US-PATENT-CLASS-317-230
US-PATENT-CLASS-317-261
US-PATENT-3,676,754

N72-28762* c 26 ..... NASA-CASE-LAR-10294-1

US-PATENT-APPL-SN-796685
US-PATENT-CLASS-106-39
US-PATENT-CLASS-106-46
US-PATENT-CLASS-117-212
US-PATENT-CLASS-117-217
US-PATENT-CLASS-29-25.42
US-PATENT-3,649,353

N72-29172* c 09 ..... NASA-CASE-LAR-10511-1
US-PATENT-APPL-SN-41345
US-PATENT-CLASS-333-24R
US-PATENT-CLASS-333-98P
US-PATENT-CLASS-333-98R
US-PATENT-3,676,809

N72-29464* c 14 ..... NASA-CASE-ARC-10017-1
US-PATENT-APPL-SN-55536
US-PATENT-CLASS-250-41.9D
US-PATENT-CLASS-250-71.5R
US-PATENT-CLASS-313-356
US-PATENT-3,676,674

N72-29488* c 15 ..... NASA-CASE-XLE-10326-2
US-PATENT-APPL-SN-54540
US-PATENT-APPL-SN-723465
US-PATENT-CLASS-277-25
US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-74
US-PATENT-3,675,935

N72-31140* c 06 ..... NASA-CASE-MSC-13335-1
US-PATENT-APPL-SN-55806
US-PATENT-CLASS-55-16
US-PATENT-CLASS-55-55
US-PATENT-3,678,654

N72-31141* c 06 ..... NASA-CASE-ARC-10308-1
US-PATENT-APPL-SN-134568
US-PATENT-CLASS-250-43.5R
US-PATENT-CLASS-356-51
US-PATENT-3,679,899

N72-31226* c 08 ..... NASA-CASE-NPO-11016
US-PATENT-APPL-SN-889584
US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-151.1
US-PATENT-CLASS-235-92MT
US-PATENT-CLASS-323-19
US-PATENT-CLASS-340-347AD
US-PATENT-3,681,581

N72-31235* c 09 ..... NASA-CASE-ERC-10214
US-PATENT-APPL-SN-863914
US-PATENT-CLASS-343-770
US-PATENT-CLASS-343-771
US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-3,680,142

N72-31273* c 10 ..... NASA-CASE-KSC-10647-1
US-PATENT-APPL-SN-774691
US-PATENT-CLASS-178-7.5E
US-PATENT-CLASS-315-22R
US-PATENT-CLASS-315-30R
US-PATENT-CLASS-330-27R
US-PATENT-3,678,191

N72-31446* c 14 ..... NASA-CASE-ERC-10087-2
US-PATENT-APPL-SN-738315
US-PATENT-APPL-SN-91642
US-PATENT-CLASS-29-588
US-PATENT-CLASS-317-234D
US-PATENT-CLASS-317-234G
US-PATENT-CLASS-317-235M
US-PATENT-CLASS-317-235R
US-PATENT-3,686,542

N72-31483* c 15 ..... NASA-CASE-LAR-10061-1
US-PATENT-APPL-SN-104047
US-PATENT-CLASS-251-331
US-PATENT-CLASS-251-86
US-PATENT-3,680,830

N72-31637* c 21 ..... NASA-CASE-GSC-10945-1
US-PATENT-APPL-SN-75431
US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-26
US-PATENT-3,678,685

N72-32169* c 07 ..... NASA-CASE-NPO-11361
US-PATENT-APPL-SN-112988
US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-915
US-PATENT-3,680,144

N72-32452* c 14 ..... NASA-CASE-MFS-15162
US-PATENT-APPL-SN-100639
US-PATENT-CLASS-350-79
US-PATENT-CLASS-356-241
US-PATENT-3,694,094

N72-32487* c 15 ..... NASA-CASE-LAR-10541-1
US-PATENT-APPL-SN-138229
US-PATENT-CLASS-118-49.1
US-PATENT-CLASS-204-298
US-PATENT-CLASS-219-121P
US-PATENT-CLASS-219-273
US-PATENT-3,690,291

N72-32688* c 25 ..... NASA-CASE-MFS-20589
US-PATENT-APPL-SN-103077
US-PATENT-CLASS-313-231
US-PATENT-CLASS-315-111
US-PATENT-3,693,002

N72-33072* c 04 ..... NASA-CASE-ERC-10338
US-PATENT-APPL-SN-50339
US-PATENT-CLASS-23-109
US-PATENT-3,679,360

N72-33096* c 05 ..... NASA-CASE-MSC-13540-1
US-PATENT-APPL-SN-68023
US-PATENT-CLASS-99-80PS
US-PATENT-3,692,533

N72-33146* c 07 ..... NASA-CASE-MSC-12259-2
US-PATENT-APPL-SN-61895
US-PATENT-APPL-SN-853763
US-PATENT-CLASS-325-373
US-PATENT-3,694,753

N72-33172* c 08 ..... NASA-CASE-NPO-11630
US-PATENT-APPL-SN-143078
US-PATENT-CLASS-179-15.55R
US-PATENT-3,694,581

N72-33204* c 09 ..... NASA-CASE-NPO-11129
US-PATENT-APPL-SN-883523
US-PATENT-CLASS-307-262
US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-155
US-PATENT-CLASS-328-24
US-PATENT-3,621,406

N72-33205* c 09 ..... NASA-CASE-GSC-10835-1
US-PATENT-APPL-SN-116778
US-PATENT-CLASS-317-101A
US-PATENT-CLASS-317-235
US-PATENT-CLASS-317-235A
US-PATENT-CLASS-317-235AJ
US-PATENT-3,694,700

N72-33230* c 10 ..... NASA-CASE-GSC-11340-1
US-PATENT-APPL-SN-107379
US-PATENT-CLASS-330-12
US-PATENT-CLASS-331-115
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-333-80T
US-PATENT-3,693,105

N72-33377* c 14 ..... NASA-CASE-MFS-20760
US-PATENT-APPL-SN-99174
US-PATENT-CLASS-73-141AB
US-PATENT-CLASS-73-85
US-PATENT-3,693,418

N72-33476* c 15 ..... NASA-CASE-XGS-07805
US-PATENT-APPL-SN-104884
US-PATENT-CLASS-308-10
US-PATENT-3,694,041

N72-33477* c 15 ..... NASA-CASE-NPO-11340
US-PATENT-APPL-SN-147997
US-PATENT-CLASS-137-13
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-60-1
US-PATENT-CLASS-60-36
US-PATENT-3,693,346

N72-33681* c 24 ..... NASA-CASE-LEW-10518-1
US-PATENT-APPL-SN-863280
US-PATENT-CLASS-176-11
US-PATENT-3,694,313

N72-33696* c 25 ..... NASA-CASE-GSC-11291-1
US-PATENT-APPL-SN-102412
US-PATENT-CLASS-250-83.6R
US-PATENT-3,694,655

N73-12175* c 08 ..... NASA-CASE-NPO-11406
US-PATENT-APPL-SN-95183
US-PATENT-CLASS-235-152
US-PATENT-CLASS-331-78
US-PATENT-CLASS-340-146.1AL
US-PATENT-3,700,869

N73-12176* c 08 ..... NASA-CASE-KSC-10595
US-PATENT-APPL-SN-98772
US-PATENT-CLASS-235-155
US-PATENT-CLASS-340-347DD
US-PATENT-3,697,733

N73-12177* c 08 ..... NASA-CASE-NPO-11371
US-PATENT-APPL-SN-117575
US-PATENT-CLASS-340-146.1AQ
US-PATENT-CLASS-340-146.1AV
US-PATENT-3,697,950

N73-12211* c 09 ..... NASA-CASE-ERC-10412-1
US-PATENT-APPL-SN-72024
US-PATENT-CLASS-343-11R
US-PATENT-CLASS-343-11VB
US-PATENT-CLASS-343-5DP
US-PATENT-3,696,418

N73-12214* # c 09 ..... NASA-CASE-NPO-13091-1
US-PATENT-APPL-SN-290022

N73-12244* c 10 ..... NASA-CASE-NPO-11631
US-PATENT-APPL-SN-123253
US-PATENT-CLASS-179-1P
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-480
US-PATENT-3,700,812

N73-12264* c 11 ..... NASA-CASE-LAR-10348-1
US-PATENT-APPL-SN-70032
US-PATENT-CLASS-73-147
US-PATENT-3,695,101

N73-12265* c 11 ..... NASA-CASE-NPO-10890
US-PATENT-APPL-SN-99903
US-PATENT-CLASS-137-559
US-PATENT-CLASS-219-203
US-PATENT-CLASS-219-522
US-PATENT-CLASS-52-171
US-PATENT-3,696,833

N73-12444* c 14 ..... NASA-CASE-GSC-10903-1
US-PATENT-APPL-SN-114846
US-PATENT-CLASS-250-41.9G
US-PATENT-CLASS-250-41.9S
US-PATENT-CLASS-73-421.5
US-PATENT-3,700,893

N73-12445* c 14 ..... NASA-CASE-LAR-10728-1
US-PATENT-APPL-SN-112998
US-PATENT-CLASS-250-83.3H
US-PATENT-CLASS-250-83.3R
US-PATENT-CLASS-250-83R
US-PATENT-3,700,897

N73-12446* c 14 ..... NASA-CASE-NPO-11239
US-PATENT-APPL-SN-89211
US-PATENT-CLASS-356-106
US-PATENT-CLASS-356-114
US-PATENT-3,700,334

N73-12447* c 14 ..... NASA-CASE-NPO-11493
US-PATENT-APPL-SN-151413
US-PATENT-CLASS-136-224
US-PATENT-3,700,503

N73-12486* c 15 ..... NASA-CASE-KSC-10615
US-PATENT-APPL-SN-103078
US-PATENT-CLASS-244-1SB
US-PATENT-CLASS-244-135
US-PATENT-CLASS-62-45
US-PATENT-CLASS-62-7
US-PATENT-3,697,021

N73-12487* c 15 ..... NASA-CASE-FRC-10019
US-PATENT-APPL-SN-880398
US-PATENT-CLASS-204-192
US-PATENT-3,700,575

N73-12488* c 15 ..... NASA-CASE-ARC-10345-1
US-PATENT-APPL-SN-193671
US-PATENT-CLASS-287-85R
US-PATENT-CLASS-308-2A
US-PATENT-CLASS-74-5F
US-PATENT-3,700,291

N73-12489* c 15 ..... NASA-CASE-MSC-12357
US-PATENT-APPL-SN-662763
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-28
US-PATENT-CLASS-264-36
US-PATENT-CLASS-264-40
US-PATENT-3,697,630

N73-12492* # c 15 ..... NASA-CASE-XLA-08914
US-PATENT-APPL-SN-810576

N73-12495* # c 15 ..... NASA-CASE-NPO-13086-1
US-PATENT-APPL-SN-292477

N73-12547* c 17 ..... NASA-CASE-LAR-10539-1
US-PATENT-APPL-SN-136085
US-PATENT-CLASS-23-230R
US-PATENT-3,701,631

N73-12604* c 18 ..... NASA-CASE-MFS-20408
US-PATENT-APPL-SN-71048
US-PATENT-CLASS-161-93
US-PATENT-3,700,538

N73-12884* c 30 ..... NASA-CASE-MSC-12391
US-PATENT-APPL-SN-106465
US-PATENT-CLASS-244-155
US-PATENT-3,700,193

N73-13008* c 02 ..... NASA-CASE-GSC-11077-1
US-PATENT-APPL-SN-127618
US-PATENT-CLASS-244-32
US-PATENT-3,698,667

N73-13114* c 05 ..... NASA-CASE-MSC-13604-1
US-PATENT-APPL-SN-78717
US-PATENT-CLASS-128-2N
US-PATENT-CLASS-273-1E
US-PATENT-CLASS-35-22R
US-PATENT-3,698,385

N73-13128* c 06 ..... NASA-CASE-GSC-11214-1
US-PATENT-APPL-SN-115134
US-PATENT-CLASS-117-35R
US-PATENT-3,702,775

N73-13129* c 06 ..... NASA-CASE-XNP-08124-2
US-PATENT-APPL-SN-97829
US-PATENT-CLASS-75-66
US-PATENT-3,702,762

N73-13149* c 07 ..... NASA-CASE-NPO-11302-1
US-PATENT-APPL-SN-70967
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-235-150.53

US-PATENT-CLASS-235-181
US-PATENT-CLASS-325-325
US-PATENT-CLASS-340-146.1
US-PATENT-3,701,894

N73-13187* c 08 ..... NASA-CASE-GSC-10975-1
US-PATENT-APPL-SN-100996
US-PATENT-CLASS-340-172.5
US-PATENT-3,702,463

N73-13208* c 09 ..... NASA-CASE-LEW-11192-1
US-PATENT-APPL-SN-198285
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-5.38
US-PATENT-3,702,951

N73-13209* c 09 ..... NASA-CASE-XLA-05099
US-PATENT-APPL-SN-98798
US-PATENT-CLASS-235-152
US-PATENT-CLASS-307-207
US-PATENT-CLASS-307-215
US-PATENT-3,700,868

N73-13235* c 10 ..... NASA-CASE-KSC-10003
US-PATENT-APPL-SN-60883
US-PATENT-CLASS-178-DIG.6
US-PATENT-CLASS-178-6
US-PATENT-CLASS-307-242
US-PATENT-CLASS-307-259
US-PATENT-CLASS-328-104
US-PATENT-CLASS-328-154
US-PATENT-3,702,898

N73-13257* c 11 ..... NASA-CASE-LAR-10574-1
US-PATENT-APPL-SN-66206
US-PATENT-CLASS-244-1SS
US-PATENT-3,698,659

N73-13415* c 14 ..... NASA-CASE-LAR-10855-1
US-PATENT-APPL-SN-166541
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
US-PATENT-3,699,811

N73-13416* c 14 ..... NASA-CASE-GSC-11302-1
US-PATENT-APPL-SN-168650
US-PATENT-CLASS-73-71.6
US-PATENT-3,699,807

N73-13417* c 14 ..... NASA-CASE-XLE-05230-2
US-PATENT-APPL-SN-147099
US-PATENT-APPL-SN-877717
US-PATENT-CLASS-136-233
US-PATENT-CLASS-29-573
US-PATENT-CLASS-29-624
US-PATENT-3,699,645

N73-13418* c 14 ..... NASA-CASE-MFS-14216
US-PATENT-APPL-SN-50208
US-PATENT-CLASS-137-487.5
US-PATENT-CLASS-137-81
US-PATENT-CLASS-92-49
US-PATENT-3,698,412

N73-13420* c 14 ..... NASA-CASE-NPO-11418-1
US-PATENT-APPL-SN-193947
US-PATENT-CLASS-333-81B
US-PATENT-CLASS-333-98R
US-PATENT-3,702,979

N73-13435*# c 14 ..... NASA-CASE-GSC-11533-1
US-PATENT-APPL-SN-305013

N73-13462* c 15 ..... NASA-CASE-NPO-11479
US-PATENT-APPL-SN-170440
US-PATENT-CLASS-137-608
US-PATENT-CLASS-137-81.5
US-PATENT-CLASS-138-45
US-PATENT-CLASS-251-122
US-PATENT-3,700,005

N73-13463* c 15 ..... NASA-CASE-MFS-20317
US-PATENT-APPL-SN-67730
US-PATENT-CLASS-173-131
US-PATENT-CLASS-72-447
US-PATENT-CLASS-72-476
US-PATENT-3,699,799

N73-13464* c 15 ..... NASA-CASE-NPO-10812
US-PATENT-APPL-SN-129073
US-PATENT-CLASS-425-113
US-PATENT-CLASS-425-133
US-PATENT-CLASS-425-176
US-PATENT-CLASS-72-258
US-PATENT-3,698,848

N73-13465* c 15 ..... NASA-CASE-LEW-10805-1
US-PATENT-APPL-SN-29917
US-PATENT-CLASS-148-11.5R
US-PATENT-3,702,791

N73-13466* c 15 ..... NASA-CASE-MFS-20944
US-PATENT-APPL-SN-148756
US-PATENT-CLASS-91-363A
US-PATENT-CLASS-91-448
US-PATENT-3,702,575

N73-13467* c 15 ..... NASA-CASE-NPO-11369
US-PATENT-APPL-SN-129072
US-PATENT-CLASS-60-1
US-PATENT-CLASS-60-23
US-PATENT-CLASS-60-37
US-PATENT-3,702,532

N73-13489* c 16 ..... NASA-CASE-HQN-10654-1
US-PATENT-APPL-SN-182978
US-PATENT-CLASS-324-.5R
US-PATENT-CLASS-331-94
US-PATENT-3,702,972

N73-13562* c 18 ..... NASA-CASE-ARC-10196-1
US-PATENT-APPL-SN-115082
US-PATENT-CLASS-260-2.5F
US-PATENT-3,702,841

N73-13643* c 21 ..... NASA-CASE-HQN-10703
US-PATENT-APPL-SN-156724
US-PATENT-CLASS-340-27NA
US-PATENT-CLASS-340-33
US-PATENT-CLASS-340-97
US-PATENT-CLASS-343-112CA
US-PATENT-3,699,511

N73-13644* c 21 ..... NASA-CASE-NPO-11481
US-PATENT-APPL-SN-134571
US-PATENT-CLASS-179-100.2A
US-PATENT-CLASS-340-174.1R
US-PATENT-CLASS-346-138
US-PATENT-CLASS-346-74MD
US-PATENT-CLASS-74-5.22
US-PATENT-3,697,968

N73-13660* c 23 ..... NASA-CASE-MFS-20809
US-PATENT-APPL-SN-173185
US-PATENT-CLASS-315-169R
US-PATENT-CLASS-315-169TV
US-PATENT-CLASS-317-101A
US-PATENT-3,700,961

N73-13661* c 23 ..... NASA-CASE-MSC-12404-1
US-PATENT-APPL-SN-142662
US-PATENT-CLASS-356-106S
US-PATENT-3,702,735

N73-13662* c 23 ..... NASA-CASE-MFS-20243
US-PATENT-APPL-SN-59894
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US-PATENT-CLASS-250-52
US-PATENT-3,702,933

N73-13773* c 28 ..... NASA-CASE-LEW-10374-1
US-PATENT-APPL-SN-107380
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US-PATENT-CLASS-60-211
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-243
US-PATENT-3,702,536

N73-13898* c 31 ..... NASA-CASE-LAR-10549-1
US-PATENT-APPL-SN-108824
US-PATENT-CLASS-244-139
US-PATENT-CLASS-60-291
US-PATENT-3,700,192

N73-13921* c 32 ..... NASA-CASE-MSC-12233-2
US-PATENT-APPL-SN-107298
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US-PATENT-CLASS-52-284
US-PATENT-CLASS-52-594
US-PATENT-3,702,520

N73-14130* c 07 ..... NASA-CASE-NPO-11661
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US-PATENT-CLASS-343-782
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-915
US-PATENT-3,705,406

N73-14214* c 09 ..... NASA-CASE-ARC-10467-1
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US-PATENT-CLASS-250-211J
US-PATENT-CLASS-250-217SS
US-PATENT-CLASS-307-310
US-PATENT-CLASS-307-311
US-PATENT-3,705,316

N73-14427* c 14 ..... NASA-CASE-NPO-10758
US-PATENT-APPL-SN-81096
US-PATENT-CLASS-352-169
US-PATENT-CLASS-95-12.5
US-PATENT-CLASS-95-59
US-PATENT-3,704,659

N73-14428* c 14 ..... NASA-CASE-NPO-10764-1
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US-PATENT-CLASS-252-408
US-PATENT-3,700,603

N73-14429* c 14 ..... NASA-CASE-NPO-11387
US-PATENT-APPL-SN-142719
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US-PATENT-CLASS-73-60
US-PATENT-3,706,221

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US-PATENT-CLASS-219-119
US-PATENT-CLASS-29-203V
US-PATENT-3,705,288

N73-14469* c 15 ..... NASA-CASE-GSC-10791-1
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US-PATENT-CLASS-29-589
US-PATENT-CLASS-29-591
US-PATENT-CLASS-317-234A
US-PATENT-CLASS-317-234G
US-PATENT-3,705,255

N73-14584* c 18 ..... NASA-CASE-LAR-10894-1
US-PATENT-APPL-SN-189375
US-PATENT-CLASS-106-39R
US-PATENT-CLASS-106-55
US-PATENT-CLASS-106-58
US-PATENT-CLASS-106-63
US-PATENT-CLASS-264-DIG.36
US-PATENT-CLASS-264-65
US-PATENT-3,706,583

N73-14692* c 21 ..... NASA-CASE-ERC-10392
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US-PATENT-CLASS-340-27AT
US-PATENT-3,706,970

N73-14853* c 31 ..... NASA-CASE-GSC-10590-1
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US-PATENT-CLASS-102-49.5
US-PATENT-3,706,281

N73-14854* c 31 ..... NASA-CASE-MSC-12433
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US-PATENT-CLASS-244-155
US-PATENT-3,702,688

N73-14855* c 31 ..... NASA-CASE-NPO-10680
US-PATENT-APPL-SN-104048
US-PATENT-CLASS-74-2
US-PATENT-3,706,230

N73-15235* c 09 ..... NASA-CASE-NPO-12106
US-PATENT-APPL-SN-175881
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US-PATENT-CLASS-317-235AG
US-PATENT-CLASS-317-235K
US-PATENT-CLASS-331-107G
US-PATENT-CLASS-331-177R
US-PATENT-CLASS-331-90
US-PATENT-3,694,771

N73-16106* c 06 ..... NASA-CASE-LAR-10668-1
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US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254E
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-250-71R
US-PATENT-CLASS-250-83.3UV
US-PATENT-3,709,663

N73-16121* c 07 ..... NASA-CASE-NPO-11572
US-PATENT-APPL-SN-125234
US-PATENT-CLASS-179-15AN
US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-325-60
US-PATENT-CLASS-343-200
US-PATENT-3,710,257

N73-16205* c 10 ..... NASA-CASE-NPO-11282
US-PATENT-APPL-SN-101354
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US-PATENT-CLASS-325-419
US-PATENT-3,710,261

N73-16206* c 10 ..... NASA-CASE-ERC-10285
US-PATENT-APPL-SN-55333
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US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-853
US-PATENT-3,710,329

N73-16483* c 14 ..... NASA-CASE-ERC-10226-1
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US-PATENT-APPL-SN-808822
US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-215
US-PATENT-CLASS-250-217
US-PATENT-CLASS-315-153
US-PATENT-CLASS-340-25
US-PATENT-CLASS-340-27R
US-PATENT-3,708,671

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US-PATENT-CLASS-250-217F
US-PATENT-CLASS-340-228S
US-PATENT-CLASS-340-418
US-PATENT-3,708,674

N73-16536* c 16 ..... NASA-CASE-LAR-10311-1
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US-PATENT-CLASS-250-199
US-PATENT-CLASS-340-171
US-PATENT-CLASS-350-293
US-PATENT-3,710,122

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US-PATENT-APPL-SN-74862
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US-PATENT-CLASS-149-36
US-PATENT-3,708,359

N73-16918* c 33 ..... NASA-CASE-MSC-15567-1

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US-PATENT-CLASS-204-325
US-PATENT-CLASS-204-328
US-PATENT-3,708,419
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US-PATENT-CLASS-244-77D
US-PATENT-CLASS-318-489
US-PATENT-3,711,042
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US-PATENT-CLASS-343-839
US-PATENT-CLASS-343-854
US-PATENT-CLASS-343-895
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US-PATENT-CLASS-317-235N
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-317-235T
US-PATENT-CLASS-317-235UA
US-PATENT-3,714,526
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US-PATENT-CLASS-95-11.5R
US-PATENT-CLASS-95-11R
US-PATENT-3,712,195
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US-PATENT-APPL-SN-161028
US-PATENT-CLASS-73-84
US-PATENT-3,712,121
N73-19421* c 14 ..... NASA-CASE-MFS-20242
US-PATENT-APPL-SN-213004
US-PATENT-CLASS-73-71.6
US-PATENT-3,712,120
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US-PATENT-APPL-SN-3418
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-625
US-PATENT-3,714,332
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US-PATENT-CLASS-259-4
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N73-19630*# c 21 ..... NASA-CASE-GSC-11188-2
US-PATENT-APPL-SN-244440
N73-19793* c 28 ..... NASA-CASE-LEW-11187-1
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US-PATENT-CLASS-244-1SS
US-PATENT-3,715,092
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US-PATENT-APPL-SN-200762
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US-PATENT-CLASS-250-212
US-PATENT-CLASS-250-234
US-PATENT-CLASS-60-26
US-PATENT-3,715,600
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US-PATENT-CLASS-312-1
US-PATENT-CLASS-62-259
US-PATENT-3,713,480
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US-PATENT-APPL-SN-701679
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US-PATENT-CLASS-325-17
US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-5
US-PATENT-CLASS-325-63
US-PATENT-CLASS-325-7
US-PATENT-CLASS-325-8
US-PATENT-CLASS-325-9
US-PATENT-CLASS-343-179
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US-PATENT-CLASS-340-147R
US-PATENT-CLASS-340-163
US-PATENT-3,715,723
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US-PATENT-CLASS-235-92R
US-PATENT-CLASS-235-92T
US-PATENT-CLASS-340-347AD
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US-PATENT-CLASS-330-109
US-PATENT-CLASS-330-86
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US-PATENT-CLASS-307-304
US-PATENT-CLASS-330-20
US-PATENT-CLASS-330-22
US-PATENT-CLASS-330-30D
US-PATENT-CLASS-330-35
US-PATENT-CLASS-330-40
US-PATENT-CLASS-330-80T
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US-PATENT-CLASS-328-187
US-PATENT-CLASS-328-37
US-PATENT-CLASS-328-61
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US-PATENT-3,714,833
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US-PATENT-APPL-SN-55535
US-PATENT-CLASS-340-27R
US-PATENT-3,714,624
N73-20475* c 14 ..... NASA-CASE-LAR-10726-1
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US-PATENT-CLASS-73-91
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US-PATENT-CLASS-250-83R
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US-PATENT-CLASS-324-65P
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US-PATENT-CLASS-195-127
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N73-20740* c 32 ..... NASA-CASE-LAR-10765-1
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US-PATENT-CLASS-73-88A
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N73-22710* c 27 ..... NASA-CASE-NPO-10893
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US-PATENT-CLASS-324-78E
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US-PATENT-CLASS-60-25
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US-PATENT-CLASS-204-192
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US-PATENT-CLASS-313-231
US-PATENT-CLASS-313-63
US-PATENT-CLASS-60-202
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US-PATENT-CLASS-102-49.8
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US-PATENT-CLASS-60-256
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US-PATENT-APPL-SN-869260
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US-PATENT-APPL-SN-768662
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US-PATENT-CLASS-325-139
US-PATENT-CLASS-325-45
US-PATENT-CLASS-325-61
US-PATENT-CLASS-340-207
US-PATENT-CLASS-340-258R
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US-PATENT-CLASS-343-6.8R
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US-PATENT-CLASS-235-151.27
US-PATENT-CLASS-235-92CV
US-PATENT-CLASS-235-92DN
US-PATENT-CLASS-235-92EA
US-PATENT-CLASS-235-92EV
US-PATENT-CLASS-235-92R
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US-PATENT-CLASS-235-151.31
US-PATENT-CLASS-324-77R
US-PATENT-CLASS-324-78J
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US-PATENT-CLASS-325-67
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US-PATENT-CLASS-317-101DH
US-PATENT-3,735,206
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US-PATENT-APPL-SN-212165
US-PATENT-CLASS-73-189
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US-PATENT-CLASS-343-17.5
US-PATENT-CLASS-343-6.8R
US-PATENT-3,732,567
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US-PATENT-CLASS-250-214
US-PATENT-CLASS-250-214
US-PATENT-CLASS-250-83.3H

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US-PATENT-CLASS-182-5
US-PATENT-CLASS-188-65.1
US-PATENT-CLASS-24-134R
US-PATENT-CLASS-254-156
US-PATENT-3,729,068
N73-25513* c 15 ..... NASA-CASE-GSC-11205-1
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US-PATENT-CLASS-188-266
US-PATENT-CLASS-244-1SA
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US-PATENT-CLASS-313-161
US-PATENT-CLASS-313-231
US-PATENT-CLASS-60-202
US-PATENT-3,735,591
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US-PATENT-APPL-SN-47063
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US-PATENT-CLASS-244-117A
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US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-CLASS-62-467
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US-PATENT-CLASS-9-3
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US-PATENT-CLASS-62-176
US-PATENT-CLASS-62-207
US-PATENT-CLASS-62-209
US-PATENT-CLASS-62-259
US-PATENT-CLASS-62-89
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US-PATENT-CLASS-351-23
US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
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US-PATENT-CLASS-343-883
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US-PATENT-CLASS-179-15BM
US-PATENT-CLASS-325-40
US-PATENT-CLASS-343-204
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US-PATENT-CLASS-356-4
US-PATENT-CLASS-356-5
US-PATENT-3,737,231
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US-PATENT-CLASS-235-164
US-PATENT-CLASS-328-167
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US-PATENT-CLASS-333-73S
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US-PATENT-CLASS-333-84M
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US-PATENT-CLASS-235-197
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US-PATENT-CLASS-180-6.5
US-PATENT-CLASS-180-7R
US-PATENT-CLASS-180-8A
US-PATENT-CLASS-180-9.2R
US-PATENT-CLASS-180-9.5
US-PATENT-CLASS-305-35EB
US-PATENT-CLASS-305-39
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US-PATENT-CLASS-219-50
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US-PATENT-CLASS-343-100ME
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US-PATENT-CLASS-356-161
US-PATENT-CLASS-356-202
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US-PATENT-CLASS-29-599
US-PATENT-CLASS-336-DIG.1
US-PATENT-CLASS-336-200
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US-PATENT-CLASS-244-137P
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US-PATENT-CLASS-73-88.5R
US-PATENT-CLASS-73-91
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US-PATENT-CLASS-128-305
US-PATENT-CLASS-32-28
US-PATENT-CLASS-32-58
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US-PATENT-APPL-SN-868775
US-PATENT-CLASS-29-580
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US-PATENT-CLASS-317-234L
US-PATENT-CLASS-317-234M
US-PATENT-CLASS-317-234N
US-PATENT-CLASS-317-234R
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US-PATENT-CLASS-331-25
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US-PATENT-CLASS-35-12C
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US-PATENT-CLASS-244-135
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US-PATENT-CLASS-340-5C
US-PATENT-CLASS-73-1DV
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US-PATENT-CLASS-53-22A
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N73-27406* c 15 ..... NASA-CASE-NPO-11377
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US-PATENT-CLASS-137-604
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US-PATENT-APPL-SN-758540
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US-PATENT-CLASS-313-218
US-PATENT-CLASS-313-230
US-PATENT-CLASS-313-355
US-PATENT-CLASS-313-63
US-PATENT-CLASS-60-202
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US-PATENT-CLASS-73-86
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US-PATENT-CLASS-73-379
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N73-27980* c 06 ..... NASA-CASE-LEW-11325-1
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US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-117-228
US-PATENT-CLASS-161-214
US-PATENT-CLASS-161-227
US-PATENT-CLASS-260-30.2
US-PATENT-CLASS-260-30.8DS
US-PATENT-CLASS-260-32.6N
US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-260-33.6R
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-65
US-PATENT-CLASS-260-78TF
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US-PATENT-CLASS-325-419
US-PATENT-CLASS-329-122
US-PATENT-3,745,255

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US-PATENT-CLASS-343-729
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-803
US-PATENT-CLASS-343-893
US-PATENT-3,747,111

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US-PATENT-3,219,997

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US-PATENT-CLASS-29-629
US-PATENT-CLASS-29-630
US-PATENT-CLASS-29-630A
US-PATENT-3,744,128

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US-PATENT-CLASS-178-69.5
US-PATENT-3,402,265

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US-PATENT-CLASS-73-147
US-PATENT-3,744,305

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US-PATENT-CLASS-73-15R
US-PATENT-3,737,762

N73-28487* c 14 ..... NASA-CASE-XLA-08916-2
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US-PATENT-APPL-SN-97472
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US-PATENT-CLASS-73-432R
US-PATENT-3,744,320

N73-28488* c 14 ..... NASA-CASE-LEW-11159-1
US-PATENT-APPL-SN-104346
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US-PATENT-CLASS-307-308
US-PATENT-3,745,357

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US-PATENT-CLASS-34-160
US-PATENT-CLASS-34-162
US-PATENT-3,744,148

N73-28490* c 14 ..... NASA-CASE-GSC-11444-1
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US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-214R
US-PATENT-CLASS-356-141
US-PATENT-3,744,913

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US-PATENT-CLASS-250-51.5
US-PATENT-3,440,419

N73-28515* c 15 ..... NASA-CASE-LEW-10533-1
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US-PATENT-CLASS-219-62
US-PATENT-CLASS-27-498
US-PATENT-CLASS-29-497.5
US-PATENT-3,745,300

N73-28516* c 15 ..... NASA-CASE-XNP-01187
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US-PATENT-3,244,943

N73-28573* c 17 ..... NASA-CASE-XNP-08876
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US-PATENT-3,419,384

N73-28710* c 26 ..... NASA-CASE-XNP-01185
US-PATENT-APPL-SN-155595
US-PATENT-CLASS-317-158
US-PATENT-3,198,994

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US-PATENT-CLASS-149-1
US-PATENT-CLASS-149-36
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US-PATENT-CLASS-252-305
US-PATENT-CLASS-60-215
US-PATENT-3,751,913

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US-PATENT-3,752,847

N73-30099* c 06 ..... NASA-CASE-MFS-10512
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US-PATENT-CLASS-260-77.5
US-PATENT-3,463,761

N73-30100* c 06 ..... NASA-CASE-MFS-10506
US-PATENT-APPL-SN-606036
US-PATENT-CLASS-260-77.5
US-PATENT-3,463,762

N73-30101* c 06 ..... NASA-CASE-MFS-10507
US-PATENT-APPL-SN-605994
US-PATENT-CLASS-260-615
US-PATENT-3,452,103

N73-30102* c 06 ..... NASA-CASE-MFS-11492
US-PATENT-APPL-SN-707440
US-PATENT-CLASS-260-2
US-PATENT-3,577,356

N73-30103* c 06 ..... NASA-CASE-MFS-10509
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US-PATENT-CLASS-260-77.5
US-PATENT-3,475,384

N73-30113* c 07 ..... NASA-CASE-NPO-11628-1
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US-PATENT-CLASS-325-422
US-PATENT-CLASS-329-120
US-PATENT-3,746,998

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US-PATENT-APPL-SN-250766
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US-PATENT-CLASS-178-6.6DD
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-179-15BS
US-PATENT-3,749,831

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US-PATENT-APPL-SN-82649
US-PATENT-CLASS-250-229
US-PATENT-CLASS-250-237R
US-PATENT-CLASS-250-239
US-PATENT-3,745,352

N73-30181* c 09 ..... NASA-CASE-MFS-21214-1
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US-PATENT-CLASS-315-248
US-PATENT-CLASS-315-324
US-PATENT-3,745,410

N73-30185* c 09 ..... NASA-CASE-NPO-11738-1
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US-PATENT-CLASS-335-296
US-PATENT-CLASS-335-297
US-PATENT-3,750,067

N73-30205* c 10 ..... NASA-CASE-NPO-11307-1
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US-PATENT-CLASS-340-277
US-PATENT-CLASS-340-279
US-PATENT-3,750,131

N73-30386* c 14 ..... NASA-CASE-MFS-20658-1
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US-PATENT-CLASS-324-79D
US-PATENT-CLASS-328-129
US-PATENT-CLASS-328-134
US-PATENT-CLASS-328-48
US-PATENT-3,745,475

N73-30388* c 14 ..... NASA-CASE-NPO-11291-1
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US-PATENT-CLASS-324-29.5
US-PATENT-CLASS-324-57R
US-PATENT-CLASS-324-62R
US-PATENT-CLASS-324-95
US-PATENT-3,750,016

N73-30389* c 14 ..... NASA-CASE-MFS-20546-2
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US-PATENT-APPL-SN-51317
US-PATENT-CLASS-250-105
US-PATENT-CLASS-250-65R
US-PATENT-3,749,911

N73-30390* c 14 ..... NASA-CASE-XGS-07752
US-PATENT-APPL-SN-533659
US-PATENT-CLASS-73-4
US-PATENT-3,395,565

N73-30391* c 14 ..... NASA-CASE-XLA-05087
US-PATENT-APPL-SN-459407
US-PATENT-CLASS-315-111
US-PATENT-3,394,286

N73-30392* c 14 ..... NASA-CASE-MFS-21441-1
US-PATENT-APPL-SN-231662
US-PATENT-CLASS-250-394
US-PATENT-CLASS-250-518
US-PATENT-3,752,986

N73-30393* c 14 ..... NASA-CASE-GSC-11487-1
US-PATENT-APPL-SN-193814
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US-PATENT-CLASS-350-199
US-PATENT-CLASS-350-204
US-PATENT-CLASS-350-55
US-PATENT-3,752,559

N73-30394* c 14 ..... NASA-CASE-LAR-10000
US-PATENT-APPL-SN-613235
US-PATENT-CLASS-73-398
US-PATENT-3,446,075

N73-30395* c 14 ..... NASA-CASE-LAR-10623-1
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US-PATENT-CLASS-15-415
US-PATENT-CLASS-73-28
US-PATENT-CLASS-73-421.5R
US-PATENT-3,748,905

N73-30457* c 15 ..... NASA-CASE-GSC-11149-1
US-PATENT-APPL-SN-152849
US-PATENT-CLASS-254-29A
US-PATENT-CLASS-29-452
US-PATENT-CLASS-81-57.38
US-PATENT-3,749,362

N73-30458* c 15 ..... NASA-CASE-LEW-11087-1
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US-PATENT-CLASS-308-188
US-PATENT-CLASS-308-193
US-PATENT-3,751,123

N73-30459* c 15 ..... NASA-CASE-MSC-13587-1
US-PATENT-APPL-SN-206698
US-PATENT-CLASS-137-516.27
US-PATENT-CLASS-137-535
US-PATENT-3,749,123

N73-30460* c 15 ..... NASA-CASE-HQN-10638-1
US-PATENT-APPL-SN-212977
US-PATENT-CLASS-188-1C
US-PATENT-CLASS-297-386
US-PATENT-3,749,205

N73-30476* c 16 ..... NASA-CASE-MFS-20823-1
US-PATENT-APPL-SN-175981
US-PATENT-CLASS-350-3.5
US-PATENT-CLASS-356-108
US-PATENT-CLASS-356-109
US-PATENT-3,744,912

N73-30532* c 18 ..... NASA-CASE-ERC-10339-1
US-PATENT-APPL-SN-43883
US-PATENT-CLASS-156-285
US-PATENT-3,745,082

N73-30640* c 21 ..... NASA-CASE-GSC-10890-1
US-PATENT-APPL-SN-111998
US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-209
US-PATENT-CLASS-250-236
US-PATENT-3,752,993

N73-30641* c 21 ..... NASA-CASE-LAR-10717-1
US-PATENT-APPL-SN-242028
US-PATENT-CLASS-343-112CA
US-PATENT-CLASS-343-6.5R
US-PATENT-3,750,168

N73-30665* c 23 ..... NASA-CASE-LEW-11326-1
US-PATENT-APPL-SN-192970
US-PATENT-CLASS-431-173
US-PATENT-CLASS-431-9
US-PATENT-CLASS-60-39.65
US-PATENT-CLASS-60-39.66
US-PATENT-CLASS-60-39.72
US-PATENT-CLASS-60-39.74R
US-PATENT-3,748,853

N73-30666* c 23 ..... NASA-CASE-GSC-11296-1
US-PATENT-APPL-SN-228190
US-PATENT-CLASS-350-162SF
US-PATENT-CLASS-350-55
US-PATENT-3,752,564

N73-30829* c 31 ..... NASA-CASE-GSC-11018-1
US-PATENT-APPL-SN-244523
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-32

US-PATENT-CLASS-165-47
US-PATENT-CLASS-165-96
US-PATENT-CLASS-244-1SS
US-PATENT-3,749,156

N73-31988* c 03 ..... NASA-CASE-MSC-12396-1
US-PATENT-APPL-SN-258331
US-PATENT-CLASS-307-18
US-PATENT-CLASS-307-28
US-PATENT-CLASS-307-29
US-PATENT-CLASS-307-38
US-PATENT-3,755,686

N73-32011* c 05 ..... NASA-CASE-GSC-11169-2
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US-PATENT-APPL-SN-60882
US-PATENT-CLASS-195-127
US-PATENT-3,756,920

N73-32012* c 05 ..... NASA-CASE-MSC-12609-1
US-PATENT-APPL-SN-750031
US-PATENT-CLASS-128-1A
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-81
US-PATENT-3,751,727

N73-32013* c 05 ..... NASA-CASE-MFS-16570-1
US-PATENT-APPL-SN-228150
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-3-12
US-PATENT-CLASS-3-2
US-PATENT-CLASS-3-6
US-PATENT-3,751,733

N73-32014* c 05 ..... NASA-CASE-MSC-11561-1
US-PATENT-APPL-SN-146940
US-PATENT-CLASS-137-535
US-PATENT-CLASS-272-DIG.1
US-PATENT-CLASS-272-DIG.4
US-PATENT-CLASS-272-DIG.5
US-PATENT-CLASS-272-79C
US-PATENT-CLASS-91-186
US-PATENT-3,758,112

N73-32015* c 05 ..... NASA-CASE-MSC-13436-1
US-PATENT-APPL-SN-173190
US-PATENT-CLASS-128-2.07
US-PATENT-CLASS-128-2.08
US-PATENT-CLASS-73-194E
US-PATENT-CLASS-73-194M
US-PATENT-3,759,249

N73-32029* c 06 ..... NASA-CASE-NPO-10998-1
NASA-CASE-NPO-10999-1
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US-PATENT-CLASS-252-431R
US-PATENT-CLASS-260-47UP
US-PATENT-CLASS-260-567.6M
US-PATENT-CLASS-260-93.5A
US-PATENT-CLASS-260-93.5S
US-PATENT-CLASS-260-94.2M
US-PATENT-CLASS-260-94.2R
US-PATENT-CLASS-260-94.7R
US-PATENT-3,755,283

N73-32030* c 06 ..... NASA-CASE-MFS-20979-2
US-PATENT-APPL-SN-100774
US-PATENT-APPL-SN-219590
US-PATENT-CLASS-260-448.2D
US-PATENT-3,763,204

N73-32081* c 08 ..... NASA-CASE-MSC-12458-1
US-PATENT-APPL-SN-188927
US-PATENT-CLASS-235-152IE
US-PATENT-CLASS-340-347DA
US-PATENT-3,754,236

N73-32107* c 09 ..... NASA-CASE-MFS-20207-1
US-PATENT-APPL-SN-239574
US-PATENT-CLASS-318-254
US-PATENT-CLASS-318-328
US-PATENT-3,757,183

N73-32108* c 09 ..... NASA-CASE-GSC-11368-1
US-PATENT-APPL-SN-237029
US-PATENT-CLASS-136-24
US-PATENT-3,759,746

N73-32109* c 09 ..... NASA-CASE-GSC-11394-1
US-PATENT-APPL-SN-292698
US-PATENT-CLASS-136-89
US-PATENT-CLASS-250-212
US-PATENT-CLASS-321-1.5
US-PATENT-3,760,257

N73-32110* c 09 ..... NASA-CASE-KSC-10729-1
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US-PATENT-CLASS-343-112R
US-PATENT-CLASS-343-113R
US-PATENT-3,754,263

N73-32111* c 09 ..... NASA-CASE-ARC-10463-1
US-PATENT-APPL-SN-241615
US-PATENT-CLASS-331-94.5
US-PATENT-3,753,148

N73-32112* c 09 ..... NASA-CASE-ARC-10330-1
US-PATENT-APPL-SN-151412
US-PATENT-CLASS-317-235R
US-PATENT-CLASS-317-235WW
US-PATENT-3,760,239

N73-32143* c 10 ..... NASA-CASE-MSC-13746-1
US-PATENT-APPL-SN-226476
US-PATENT-CLASS-178-18
US-PATENT-3,758,718

N73-32144* c 10 ..... NASA-CASE-NPO-11703-1
US-PATENT-APPL-SN-223560
US-PATENT-CLASS-340-166
US-PATENT-CLASS-340-173
US-PATENT-CLASS-340-223
US-PATENT-CLASS-340-415
US-PATENT-3,760,394

N73-32145* c 10 ..... NASA-CASE-MFS-21465-1
US-PATENT-APPL-SN-218965
US-PATENT-CLASS-307-271
US-PATENT-CLASS-318-230
US-PATENT-CLASS-318-231
US-PATENT-CLASS-318-341
US-PATENT-CLASS-331-135
US-PATENT-3,760,248

N73-32152* c 11 ..... NASA-CASE-MSC-13789-1
US-PATENT-APPL-SN-166487
US-PATENT-CLASS-102-95
US-PATENT-CLASS-188-1C
US-PATENT-CLASS-89-8
US-PATENT-3,763,740

N73-32317* c 14 ..... NASA-CASE-NPO-12128-1
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US-PATENT-CLASS-250-207
US-PATENT-CLASS-250-83.3R
US-PATENT-CLASS-313-104
US-PATENT-3,758,781

N73-32318* c 14 ..... NASA-CASE-KSC-10730-1
US-PATENT-APPL-SN-248469
US-PATENT-CLASS-324-72
US-PATENT-3,760,268

N73-32319* c 14 ..... NASA-CASE-KSC-10728-1
US-PATENT-APPL-SN-292682
US-PATENT-CLASS-95-11
US-PATENT-CLASS-95-11.5
US-PATENT-3,759,152

N73-32320* c 14 ..... NASA-CASE-GSC-11188-1
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US-PATENT-APPL-SN-80029
US-PATENT-CLASS-29-195Y
US-PATENT-3,759,672

N73-32321* c 14 ..... NASA-CASE-XNP-05530
NASA-CASE-XNP-06933
US-PATENT-APPL-SN-488381
US-PATENT-CLASS-73-81
US-PATENT-3,379,052

N73-32322* c 14 ..... NASA-CASE-LAR-10319-1
US-PATENT-APPL-SN-197870
US-PATENT-CLASS-346-110
US-PATENT-CLASS-95-42
US-PATENT-3,757,659

N73-32323* c 14 ..... NASA-CASE-LAR-10440-1
US-PATENT-APPL-SN-229413
US-PATENT-CLASS-73-103
US-PATENT-CLASS-73-94
US-PATENT-3,757,568

N73-32324* c 14 ..... NASA-CASE-LAR-02743
US-PATENT-APPL-SN-404212
US-PATENT-CLASS-313-7
US-PATENT-3,310,699

N73-32325* c 14 ..... NASA-CASE-XNP-04231
US-PATENT-APPL-SN-362261
US-PATENT-CLASS-250-41.9
US-PATENT-3,334,225

N73-32326* c 14 ..... NASA-CASE-ARC-10362-1
US-PATENT-APPL-SN-198289
US-PATENT-CLASS-128-2.05F
US-PATENT-CLASS-73-194EM
US-PATENT-3,751,980

N73-32327* c 14 ..... NASA-CASE-LAR-10483-1
US-PATENT-APPL-SN-184090
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-170R
US-PATENT-3,763,691

N73-32358* c 15 ..... NASA-CASE-LEW-11388-1
US-PATENT-APPL-SN-289033
US-PATENT-CLASS-219-117
US-PATENT-CLASS-219-91
US-PATENT-CLASS-29-497
US-PATENT-3,758,741

N73-32359* c 15 ..... NASA-CASE-LEW-11152-1
US-PATENT-APPL-SN-198379
US-PATENT-CLASS-308-35
US-PATENT-CLASS-308-9
US-PATENT-3,759,588

N73-32360* c 15 ..... NASA-CASE-GSC-11163-1
US-PATENT-APPL-SN-205047
US-PATENT-CLASS-117-105
US-PATENT-CLASS-117-105.5
US-PATENT-CLASS-117-130R
US-PATENT-CLASS-117-138.8R
US-PATENT-CLASS-117-151
US-PATENT-CLASS-117-160R
US-PATENT-CLASS-117-66
US-PATENT-CLASS-29-527.2
US-PATENT-CLASS-72-53
US-PATENT-3,754,976

N73-32361* c 15 ..... NASA-CASE-XNP-01188
US-PATENT-APPL-SN-155596
US-PATENT-CLASS-317-158
US-PATENT-3,262,025

N73-32362* c 15 ..... NASA-CASE-XNP-07169
US-PATENT-APPL-SN-486884
US-PATENT-CLASS-175-26
US-PATENT-3,375,885

N73-32391* c 16 ..... NASA-CASE-GSC-11222-1
US-PATENT-APPL-SN-251621
US-PATENT-CLASS-307-157
US-PATENT-CLASS-315-DIG.2
US-PATENT-CLASS-315-101
US-PATENT-CLASS-315-258
US-PATENT-CLASS-315-356
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5
US-PATENT-3,758,877

N73-32414* c 17 ..... NASA-CASE-LEW-11267-1
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US-PATENT-CLASS-29-196.2
US-PATENT-CLASS-29-196.6
US-PATENT-CLASS-29-197
US-PATENT-3,762,884

N73-32415* c 17 ..... NASA-CASE-LEW-10436-1
US-PATENT-APPL-SN-221093
US-PATENT-CLASS-73-170
US-PATENT-CLASS-75-171
US-PATENT-3,762,918

N73-32437* c 18 ..... NASA-CASE-MFS-20861-1
US-PATENT-APPL-SN-160860
US-PATENT-CLASS-75-135
US-PATENT-3,752,665

N73-32528* c 22 ..... NASA-CASE-XLE-00209
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US-PATENT-CLASS-176-169
US-PATENT-3,759,787

N73-32571* c 26 ..... NASA-CASE-LEW-11015
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US-PATENT-CLASS-174-DIG.6
US-PATENT-CLASS-174-126CP
US-PATENT-CLASS-29-599
US-PATENT-CLASS-335-216
US-PATENT-3,763,552

N73-32606* c 28 ..... NASA-CASE-NPO-12070-1
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US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-141
US-PATENT-CLASS-165-185
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-267
US-PATENT-3,759,443

N73-32749* c 31 ..... NASA-CASE-ERC-10365-1
US-PATENT-APPL-SN-99198
US-PATENT-CLASS-287-92
US-PATENT-CLASS-52-109
US-PATENT-CLASS-52-64
US-PATENT-CLASS-52-646
US-PATENT-CLASS-52-80
US-PATENT-3,757,476

N73-32750* c 31 ..... NASA-CASE-LEW-11101-1
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US-PATENT-CLASS-244-1SC
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-47-1.4
US-PATENT-CLASS-47-17
US-PATENT-3,749,332

N73-32818* c 33 ..... NASA-CASE-NPO-11942-1
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US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-96
US-PATENT-CLASS-244-1SS
US-PATENT-3,763,928

N73-33076* c 06 ..... NASA-CASE-NPO-10767-1
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US-PATENT-APPL-SN-770417
US-PATENT-CLASS-260-77.5AP
US-PATENT-3,755,265

N73-33361* c 14 ..... NASA-CASE-ARC-10468-1
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US-PATENT-CLASS-95-12
US-PATENT-3,764,209

N73-33383* c 15 ..... NASA-CASE-LEW-11026-1
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US-PATENT-CLASS-29-494
US-PATENT-CLASS-29-497.5
US-PATENT-CLASS-29-498

US-PATENT-3,748,722
N73-33397* c 16 ..... NASA-CASE-ARC-10444-1
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US-PATENT-CLASS-350-285
US-PATENT-CLASS-356-138
US-PATENT-CLASS-356-148
US-PATENT-CLASS-356-153
US-PATENT-CLASS-356-172
US-PATENT-3,764,220
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US-PATENT-CLASS-244-145
US-PATENT-3,764,097
N74-10132* c 32 ..... NASA-CASE-NPO-11302-2
US-PATENT-APPL-SN-266822
US-PATENT-APPL-SN-70967
US-PATENT-CLASS-178-69.4R
US-PATENT-3,766,315
N74-10194* c 33 ..... NASA-CASE-NPO-11962-1
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US-PATENT-CLASS-331-14
US-PATENT-CLASS-331-17
US-PATENT-CLASS-331-178
US-PATENT-CLASS-331-18
US-PATENT-CLASS-331-4
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US-PATENT-CLASS-315-5.38
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US-PATENT-CLASS-235-92CA
US-PATENT-CLASS-235-92DM
US-PATENT-CLASS-307-225R
US-PATENT-CLASS-328-48
US-PATENT-3,764,790
N74-10415* c 35 ..... NASA-CASE-MFS-20335-1
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US-PATENT-3,765,229
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US-PATENT-CLASS-277-27
US-PATENT-CLASS-277-96
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US-PATENT-APPL-SN-29917
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US-PATENT-CLASS-29-420.5
US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-226
US-PATENT-3,765,958
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N74-10942* c 08 ..... NASA-CASE-MSC-12394-1
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US-PATENT-CLASS-318-580
US-PATENT-CLASS-318-628
US-PATENT-3,771,037
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US-PATENT-CLASS-73-149
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US-PATENT-CLASS-343-909
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N74-11049* c 33 ..... NASA-CASE-HQN-10792-1
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US-PATENT-CLASS-321-2
US-PATENT-CLASS-321-45S
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-331-113A
US-PATENT-CLASS-331-62
US-PATENT-3,771,040
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US-PATENT-CLASS-137-833
US-PATENT-CLASS-137-840
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US-PATENT-CLASS-179-100.2MD
US-PATENT-CLASS-179-100.2T
US-PATENT-CLASS-340-174.1L
US-PATENT-3,770,903
N74-11284* c 35 ..... NASA-CASE-NPO-11919-1
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US-PATENT-CLASS-250-343
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N74-11300* c 37 ..... NASA-CASE-LEW-10533-2
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US-PATENT-CLASS-219-101
US-PATENT-CLASS-219-107
US-PATENT-CLASS-219-78
US-PATENT-CLASS-29-497.5
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N74-11301* c 37 ..... NASA-CASE-LAR-10170-1
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US-PATENT-CLASS-29-460
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-503
US-PATENT-CLASS-29-527.2
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US-PATENT-CLASS-333-97R
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N74-12778* c 52 ..... NASA-CASE-MFS-20284-1
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US-PATENT-CLASS-128-2.06F
US-PATENT-CLASS-324-186
US-PATENT-CLASS-324-78D
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US-PATENT-CLASS-222-340
US-PATENT-CLASS-222-387
US-PATENT-CLASS-222-514
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US-PATENT-CLASS-23-281
US-PATENT-CLASS-23-288F
US-PATENT-CLASS-23-288J
US-PATENT-CLASS-423-231
US-PATENT-CLASS-55-510
US-PATENT-CLASS-55-518
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N74-12814* c 27 ..... NASA-CASE-ARC-10180-1
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US-PATENT-CLASS-260-2.5L
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US-PATENT-CLASS-325-320
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US-PATENT-CLASS-329-122
US-PATENT-CLASS-329-126
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N74-12888* c 60 ..... NASA-CASE-MSC-14053-1
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US-PATENT-CLASS-340-173LM
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N74-12912* c 32 ..... NASA-CASE-NPO-11850-1
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US-PATENT-CLASS-343-6.5SS
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US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-32
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US-PATENT-CLASS-317-234F
US-PATENT-CLASS-317-234M
US-PATENT-CLASS-317-234N
US-PATENT-CLASS-317-234R
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US-PATENT-CLASS-73-88R
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N74-13130* c 91 ..... NASA-CASE-NPO-12127-1
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US-PATENT-CLASS-250-83CD
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N74-13131* c 39 ..... NASA-CASE-MFS-20730-1
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US-PATENT-CLASS-269-48.1
US-PATENT-CLASS-83-452
US-PATENT-CLASS-83-602
US-PATENT-CLASS-83-917
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US-PATENT-CLASS-73-420
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N74-13177* c 31 ..... NASA-CASE-LAR-10547-1
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US-PATENT-CLASS-264-294
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N74-13178* c 37 ..... NASA-CASE-LAR-10544-1
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US-PATENT-CLASS-222-193
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US-PATENT-APPL-SN-29917
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US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-213
US-PATENT-CLASS-75-214
US-PATENT-CLASS-75-226
US-PATENT-3,775,101
N74-13205* c 36 ..... NASA-CASE-NPO-11317-2
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US-PATENT-APPL-SN-34989
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US-PATENT-CLASS-250-217
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US-PATENT-CLASS-340-174YC
US-PATENT-CLASS-350-151
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US-PATENT-CLASS-204-192
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US-PATENT-CLASS-235-150.22
US-PATENT-CLASS-235-150.26
US-PATENT-CLASS-244-77A
US-PATENT-CLASS-244-77B
US-PATENT-CLASS-343-108R
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US-PATENT-APPL-SN-38816
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US-PATENT-CLASS-117-33.3
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N74-13502* c 20 ..... NASA-CASE-LEW-11058-1
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US-PATENT-CLASS-60-259
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US-PATENT-CLASS-264-102
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N74-14784* c 44 ..... NASA-CASE-LEW-11069-1
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US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-588
US-PATENT-3,780,424
N74-14845* c 54 ..... NASA-CASE-LAR-10241-1
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US-PATENT-CLASS-219-539
US-PATENT-CLASS-338-320
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US-PATENT-CLASS-330-35
US-PATENT-CLASS-330-9
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US-PATENT-CLASS-317-46
US-PATENT-CLASS-317-47
US-PATENT-CLASS-317-48
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US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-244-3.16
US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-237R
US-PATENT-3,780,966
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US-PATENT-APPL-SN-88435
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US-PATENT-CLASS-250-214
US-PATENT-CLASS-317-235N
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US-PATENT-CLASS-250-361
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US-PATENT-CLASS-250-492
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US-PATENT-CLASS-165-2
US-PATENT-CLASS-259-DIG.18
US-PATENT-CLASS-259-60
US-PATENT-CLASS-62-45
US-PATENT-3,782,698
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US-PATENT-CLASS-73-517B
US-PATENT-CLASS-74-5.6
US-PATENT-3,782,205
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US-PATENT-CLASS-350-285
US-PATENT-CLASS-350-7
US-PATENT-CLASS-356-216
US-PATENT-CLASS-356-43
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US-PATENT-CLASS-277-91
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US-PATENT-CLASS-29-148.4B
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US-PATENT-CLASS-331-94.5S
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US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-4
US-PATENT-CLASS-356-5
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US-PATENT-CLASS-346-108
US-PATENT-CLASS-346-138
US-PATENT-CLASS-346-24
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US-PATENT-CLASS-340-5R
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US-PATENT-CLASS-74-594.7
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US-PATENT-3,759,747

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US-PATENT-CLASS-136-30
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US-PATENT-3,796,592

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US-PATENT-CLASS-328-160
US-PATENT-CLASS-328-168
US-PATENT-CLASS-328-172
US-PATENT-CLASS-333-14
US-PATENT-3,800,237

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N74-19870* c 44 ..... NASA-CASE-MFS-21470-1
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US-PATENT-CLASS-333-17
US-PATENT-CLASS-343-17.7
US-PATENT-CLASS-343-7.5
US-PATENT-3,795,910

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US-PATENT-APPL-SN-80029
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US-PATENT-3,799,793

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US-PATENT-CLASS-178-6
US-PATENT-CLASS-178-7.6
US-PATENT-3,800,074

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US-PATENT-APPL-SN-99201
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US-PATENT-3,796,473

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US-PATENT-3,799,813

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US-PATENT-CLASS-137-15.2
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US-PATENT-CLASS-128-2.08
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US-PATENT-CLASS-73-421.5R
US-PATENT-3,799,149

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US-PATENT-CLASS-325-423
US-PATENT-3,800,227

N74-20810* c 32 ..... NASA-CASE-MSC-12494-1
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US-PATENT-CLASS-325-419
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N74-20811* c 32 ..... NASA-CASE-NPO-13103-1
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US-PATENT-CLASS-325-419
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US-PATENT-3,806,815

N74-20813* c 32 ..... NASA-CASE-FRC-10071-1
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US-PATENT-3,803,393

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US-PATENT-APPL-SN-487929
US-PATENT-APPL-SN-848403
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US-PATENT-CLASS-315-228
US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-332-7.51
US-PATENT-3,806,835

N74-20860* c 33 ..... NASA-CASE-GSC-11446-1
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US-PATENT-CLASS-343-DIG.2
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-854
US-PATENT-3,806,932

N74-20861* c 33 ..... NASA-CASE-GSC-11560-1
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US-PATENT-CLASS-354-234
US-PATENT-CLASS-95-53EA
US-PATENT-3,804,506

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US-PATENT-CLASS-331-115
US-PATENT-CLASS-331-116R
US-PATENT-CLASS-331-159
US-PATENT-3,806,831

N74-20863* c 32 ..... NASA-CASE-GSC-11909
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US-PATENT-CLASS-343-786
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-853
US-PATENT-3,803,617

N74-20864* c 32 ..... NASA-CASE-GSC-11428-1
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US-PATENT-CLASS-343-769
US-PATENT-CLASS-343-853
US-PATENT-3,805,266

N74-21014* c 71 ..... NASA-CASE-HQN-10832-1
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US-PATENT-CLASS-178-5.8R
US-PATENT-CLASS-178-7.2
US-PATENT-CLASS-340-407
US-PATENT-CLASS-35-35A
US-PATENT-3,800,082

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US-PATENT-CLASS-33-46R
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N74-21017* c 35 ..... NASA-CASE-MFS-21660-1
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US-PATENT-3,806,802

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US-PATENT-CLASS-324-34FL
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US-PATENT-3,802,262

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US-PATENT-3,802,249

N74-21055* c 37 ..... NASA-CASE-LEW-11388-2
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US-PATENT-APPL-SN-293726
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US-PATENT-CLASS-29-494
US-PATENT-CLASS-29-498
US-PATENT-CLASS-29-504
US-PATENT-3,798,748

N74-21056* c 37 ..... NASA-CASE-LAR-10688-1
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US-PATENT-CLASS-235-92PE
US-PATENT-CLASS-235-92SB
US-PATENT-3,800,253

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US-PATENT-3,797,098

N74-21058* c 37 ..... NASA-CASE-MFS-22411-1
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US-PATENT-3,801,617

N74-21059* c 31 ..... NASA-CASE-LAR-10409-1
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US-PATENT-CLASS-29-423
US-PATENT-3,798,741

N74-21060* c 37 ..... NASA-CASE-NPO-13105-1
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US-PATENT-CLASS-60-25
US-PATENT-3,798,896

N74-21061* c 37 ..... NASA-CASE-LEW-11076-1
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US-PATENT-CLASS-308-73
US-PATENT-3,804,472

N74-21062* c 35 ..... NASA-CASE-LAR-10295-1
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US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-432
US-PATENT-3,805,622

N74-21063* c 37 ..... NASA-CASE-LEW-10698-1
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US-PATENT-CLASS-117-129
US-PATENT-CLASS-161-196
US-PATENT-CLASS-65-DIG.11
US-PATENT-3,804,703

N74-21064* c 37 ..... NASA-CASE-LEW-11087-3
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US-PATENT-APPL-SN-346361
US-PATENT-CLASS-308-188
US-PATENT-CLASS-308-191
US-PATENT-3,802,753

N74-21065* c 37 ..... NASA-CASE-NPO-11951-1
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US-PATENT-CLASS-137-628
US-PATENT-CLASS-251-120
US-PATENT-CLASS-251-122
US-PATENT-CLASS-251-210
US-PATENT-3,802,660

N74-21091* c 36 ..... NASA-CASE-GSC-11262-1
US-PATENT-APPL-SN-162380
US-PATENT-CLASS-250-204
US-PATENT-CLASS-33-285
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-172
US-PATENT-3,804,525

N74-21156* c 27 ..... NASA-CASE-ARC-10592-1
US-PATENT-APPL-SN-321179
US-PATENT-CLASS-260.46.5E
US-PATENT-3,803,090

N74-21300* c 70 ..... NASA-CASE-ARC-10516-1
US-PATENT-APPL-SN-267768
US-PATENT-CLASS-350-270
US-PATENT-CLASS-354-234
US-PATENT-3,797,919

N74-21304* c 74 ..... NASA-CASE-GSC-11353-1
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US-PATENT-CLASS-350-299
US-PATENT-CLASS-356-152
US-PATENT-3,802,779

N74-21850* c 33 ..... NASA-CASE-GSC-11602-1
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US-PATENT-CLASS-315-10
US-PATENT-CLASS-315-11
US-PATENT-CLASS-315-12
US-PATENT-3,806,756

N74-21851* c 33 ..... NASA-CASE-ARC-10596-1
US-PATENT-APPL-SN-267862
US-PATENT-CLASS-330-28
US-PATENT-CLASS-330-59
US-PATENT-3,811,094

N74-22095* c 35 ..... NASA-CASE-NPO-10617-1
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US-PATENT-CLASS-73-190H
US-PATENT-3,648,516

N74-22096* c 32 ..... NASA-CASE-XLE-04791
US-PATENT-APPL-SN-582213
US-PATENT-CLASS-330-103
US-PATENT-3,404,348

N74-22136* c 18 ..... NASA-CASE-MFS-20922-1
US-PATENT-APPL-SN-220274
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-49-68
US-PATENT-CLASS-61-83
US-PATENT-3,807,656

N74-22771* c 52 ..... NASA-CASE-ARC-10447-1
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US-PATENT-CLASS-235-151.3
US-PATENT-3,809,871

N74-22814* c 33 ..... NASA-CASE-NPO-13081-1

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US-PATENT-CLASS-307-243
US-PATENT-CLASS-307-290
US-PATENT-CLASS-328-154
US-PATENT-3,808,464

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US-PATENT-APPL-SN-87597
US-PATENT-CLASS-321-45R
US-PATENT-3,808,511

N74-22865* c 33 ..... NASA-CASE-LAR-10168-1
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US-PATENT-CLASS-174-69
US-PATENT-CLASS-174-70R
US-PATENT-CLASS-244-151R
US-PATENT-3,809,800

N74-22885* c 33 ..... NASA-CASE-MFS-21671-1
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US-PATENT-CLASS-323-106
US-PATENT-CLASS-323-122
US-PATENT-CLASS-323-128
US-PATENT-3,808,517

N74-23039* c 34 ..... NASA-CASE-GSC-11620-1
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US-PATENT-CLASS-244-127
US-PATENT-CLASS-244-31
US-PATENT-3,807,384

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NASA-CASE-NPO-13127-1
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US-PATENT-CLASS-356-113
US-PATENT-3,809,481

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US-PATENT-3,809,601

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US-PATENT-CLASS-204-222
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US-PATENT-CLASS-353-54
US-PATENT-CLASS-353-61
US-PATENT-3,811,044

N74-23068* c 46 ..... NASA-CASE-XNP-10007-1
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US-PATENT-APPL-SN-768942
US-PATENT-CLASS-299-67
US-PATENT-3,606,470

N74-23069* c 46 ..... NASA-CASE-XNP-09755
US-PATENT-APPL-SN-611414
US-PATENT-APPL-SN-857241
US-PATENT-CLASS-125-1
US-PATENT-CLASS-125-3
US-PATENT-CLASS-299-86
US-PATENT-CLASS-51-283
US-PATENT-3,612,030

N74-23070* c 37 ..... NASA-CASE-MFS-20645-1
US-PATENT-APPL-SN-103091
US-PATENT-CLASS-74-217R
US-PATENT-3,678,771

N74-23125* c 27 ..... NASA-CASE-LEW-10199-1
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US-PATENT-CLASS-117-126GR
US-PATENT-CLASS-117-132B
US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-260-78TF
US-PATENT-3,647,529

N74-25968* c 37 ..... NASA-CASE-MFS-21485-1
US-PATENT-APPL-SN-277436
US-PATENT-CLASS-408-111
US-PATENT-CLASS-408-80
US-PATENT-CLASS-90-12.5
US-PATENT-3,813,183

N74-26625* c 52 ..... NASA-CASE-NPO-13065-1
US-PATENT-APPL-SN-269073
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-325-113
US-PATENT-CLASS-325-141
US-PATENT-CLASS-340-183
US-PATENT-CLASS-340-203
US-PATENT-CLASS-340-207R
US-PATENT-3,815,109

N74-26626* c 52 ..... NASA-CASE-MSC-13999-1
US-PATENT-APPL-SN-256317
US-PATENT-CLASS-128-2.05A
US-PATENT-CLASS-128-2.05S
US-PATENT-3,814,083

N74-26654* c 32 ..... NASA-CASE-MSC-14065-1
US-PATENT-APPL-SN-297128
US-PATENT-CLASS-178-67
US-PATENT-CLASS-325-30
US-PATENT-3,816,657

N74-26732* c 33 ..... NASA-CASE-MFS-21698-1
US-PATENT-APPL-SN-37050
US-PATENT-CLASS-331-109
US-PATENT-CLASS-331-117R
US-PATENT-CLASS-331-183
US-PATENT-3,815,048

N74-26767* c 73 ..... NASA-CASE-NPO-13112-1
US-PATENT-APPL-SN-267572
US-PATENT-CLASS-250-499
US-PATENT-CLASS-313-61S
US-PATENT-3,816,785

N74-26945* c 35 ..... NASA-CASE-MFS-21556-1
US-PATENT-APPL-SN-340791
US-PATENT-CLASS-177-200
US-PATENT-CLASS-177-211
US-PATENT-CLASS-177-246
US-PATENT-CLASS-73-141A
US-PATENT-3,812,924

N74-26946* c 35 ..... NASA-CASE-MFS-22040-1
US-PATENT-APPL-SN-365644
US-PATENT-CLASS-350-3.5
US-PATENT-CLASS-96-38.3
US-PATENT-CLASS-96-79
US-PATENT-3,815,969

N74-26947* c 25 ..... NASA-CASE-ARC-10633-1
US-PATENT-APPL-SN-354611
US-PATENT-CLASS-250-304
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-373
US-PATENT-3,814,939

N74-26948* c 25 ..... NASA-CASE-MFS-21395-1
US-PATENT-APPL-SN-260093
US-PATENT-CLASS-204-180R
US-PATENT-3,814,678

N74-26949* c 35 ..... NASA-CASE-GSC-11492-1
US-PATENT-APPL-SN-372148
US-PATENT-CLASS-250-374
US-PATENT-CLASS-250-385
US-PATENT-CLASS-313-93
US-PATENT-3,812,358

N74-26976* c 37 ..... NASA-CASE-MFS-21846-1
US-PATENT-APPL-SN-359958
US-PATENT-CLASS-188-163
US-PATENT-CLASS-188-171
US-PATENT-3,812,936

N74-26977* c 33 ..... NASA-CASE-MFS-22133-1
US-PATENT-APPL-SN-337487
US-PATENT-CLASS-29-203MW
US-PATENT-3,815,205

N74-27035* c 24 ..... NASA-CASE-XLA-11028-1
US-PATENT-APPL-SN-219435
US-PATENT-CLASS-156-285
US-PATENT-3,814,653

N74-27037* c 27 ..... NASA-CASE-ARC-10304-2
US-PATENT-APPL-SN-140946
US-PATENT-APPL-SN-318358
US-PATENT-CLASS-102-105
US-PATENT-CLASS-106-15FP
US-PATENT-CLASS-252-62
US-PATENT-CLASS-252-8.1
US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-2.5FP
US-PATENT-CLASS-260-2.5R
US-PATENT-CLASS-260-2R
US-PATENT-CLASS-260-396N
US-PATENT-3,819,550

N74-27360* c 15 ..... NASA-CASE-LAR-10670-2
US-PATENT-APPL-SN-248761
US-PATENT-APPL-SN-59892
US-PATENT-CLASS-102-90
US-PATENT-CLASS-60-214
US-PATENT-CLASS-60-215
US-PATENT-CLASS-60-39.46
US-PATENT-3,813,875

N74-27397* c 18 ..... NASA-CASE-MFS-21680-1
NASA-CASE-MFS-21681-1
US-PATENT-APPL-SN-343607
US-PATENT-CLASS-244-1SS
US-PATENT-CLASS-248-16
US-PATENT-CLASS-248-23
US-PATENT-3,814,350

N74-27425* c 28 ..... NASA-CASE-NPO-11743-1
US-PATENT-APPL-SN-277904
US-PATENT-CLASS-102-28EB
US-PATENT-CLASS-102-70.2A
US-PATENT-CLASS-102-70-2R
US-PATENT-3,812,783

N74-27490* c 07 ..... NASA-CASE-LEW-11286-1
US-PATENT-APPL-SN-339806
US-PATENT-CLASS-181-33HB
US-PATENT-CLASS-239-265.17
US-PATENT-3,820,630

N74-27519* c 44 ..... NASA-CASE-MFS-20761-1
US-PATENT-APPL-SN-326327
US-PATENT-CLASS-136-182
US-PATENT-CLASS-324-29.5
US-PATENT-CLASS-324-72.5
US-PATENT-3,818,325

N74-27566* c 52 ..... NASA-CASE-GSC-11531-1
US-PATENT-APPL-SN-291845
US-PATENT-CLASS-128-2.05E
US-PATENT-CLASS-73-398AR
US-PATENT-3,811,429

N74-27612* c 32 ..... NASA-CASE-MSC-14219-1
US-PATENT-APPL-SN-324029
US-PATENT-CLASS-117-2R
US-PATENT-CLASS-156-94
US-PATENT-CLASS-179-100.2A
US-PATENT-CLASS-179-100.2B
US-PATENT-CLASS-264-36
US-PATENT-3,819,440

N74-27682* c 33 ..... NASA-CASE-ARC-10593-1
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US-PATENT-CLASS-250-207
US-PATENT-CLASS-307-252L
US-PATENT-CLASS-307-252Q
US-PATENT-3,821,546

N74-27683* c 33 ..... NASA-CASE-LEW-10950-1
US-PATENT-APPL-SN-273222
US-PATENT-CLASS-174-111
US-PATENT-CLASS-174-15C
US-PATENT-CLASS-174-28
US-PATENT-CLASS-310-4R
US-PATENT-3,821,462

N74-27705* c 33 ..... NASA-CASE-MSC-14066-1
US-PATENT-APPL-SN-297127
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-320
US-PATENT-3,818,346

N74-27730* c 34 ..... NASA-CASE-MFS-21424-1
US-PATENT-APPL-SN-315048
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-3
US-PATENT-3,817,082

N74-27744* c 34 ..... NASA-CASE-MFS-21394-1
US-PATENT-APPL-SN-258171
US-PATENT-CLASS-204-180R
US-PATENT-CLASS-204-299
US-PATENT-3,821,102

N74-27859* c 34 ..... NASA-CASE-GSC-11434-1
US-PATENT-APPL-SN-263498
US-PATENT-CLASS-73-190R
US-PATENT-3,813,937

N74-27860* c 35 ..... NASA-CASE-MSC-14081-1
US-PATENT-APPL-SN-331760
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US-PATENT-CLASS-356-160
US-PATENT-CLASS-356-246
US-PATENT-3,817,627

N74-27861* c 34 ..... NASA-CASE-MFS-21108-1
US-PATENT-APPL-SN-307728
US-PATENT-CLASS-136-213
US-PATENT-CLASS-136-230
US-PATENT-CLASS-136-233
US-PATENT-3,819,419

N74-27862* c 33 ..... NASA-CASE-KSC-10731-1
US-PATENT-APPL-SN-288847
US-PATENT-CLASS-324-72
US-PATENT-CLASS-340-151
US-PATENT-CLASS-340-182
US-PATENT-CLASS-340-200
US-PATENT-CLASS-73-170R
US-PATENT-3,820,095

N74-27864* c 52 ..... NASA-CASE-MFS-21049-1
US-PATENT-APPL-SN-304430
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-338-114
US-PATENT-CLASS-338-5
US-PATENT-CLASS-73-88.5R
US-PATENT-3,820,529

N74-27865* c 35 ..... NASA-CASE-MFS-21728-1
US-PATENT-APPL-SN-361907
US-PATENT-CLASS-73-141A
US-PATENT-3,820,388

N74-27866* c 74 ..... NASA-CASE-MFS-21372-1
US-PATENT-APPL-SN-226477
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US-PATENT-CLASS-250-511
US-PATENT-3,821,556

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US-PATENT-CLASS-73-15R
US-PATENT-3,817,084

N74-27901* c 37 ..... NASA-CASE-ARC-10462-1
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US-PATENT-CLASS-74-710
US-PATENT-3,818,775

N74-27902* c 31 ..... NASA-CASE-GSC-11445-1
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US-PATENT-CLASS-236-49
US-PATENT-CLASS-98-39
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US-PATENT-CLASS-244-1SD
US-PATENT-3,820,741
N74-27904* c 37 ..... NASA-CASE-LEW-11672-1
US-PATENT-APPL-SN-305639
US-PATENT-CLASS-417-52
US-PATENT-3,819,299
N74-27905* c 37 ..... NASA-CASE-LAR-10450-1
US-PATENT-APPL-SN-289017
US-PATENT-CLASS-51-225
US-PATENT-CLASS-51-234
US-PATENT-CLASS-51-97R
US-PATENT-3,820,286
N74-28097* c 35 ..... NASA-CASE-GSC-11479-1
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US-PATENT-CLASS-244-1SA
US-PATENT-CLASS-74-5.5
US-PATENT-3,818,767
N74-28226* c 07 ..... NASA-CASE-LEW-11402-1
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US-PATENT-CLASS-415-181
US-PATENT-CLASS-416-223
US-PATENT-CLASS-416-237
US-PATENT-3,820,918
N74-29410* c 19 ..... NASA-CASE-MFS-21577-1
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US-PATENT-CLASS-250-372
US-PATENT-CLASS-250-394
US-PATENT-3,825,760
N74-29556* c 33 ..... NASA-CASE-KSC-10769-1
US-PATENT-APPL-SN-374583
US-PATENT-CLASS-318-602
US-PATENT-CLASS-318-603
US-PATENT-CLASS-318-664
US-PATENT-3,826,964
N74-30001* c 24 ..... NASA-CASE-LAR-10416-1
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US-PATENT-CLASS-156-94
US-PATENT-3,814,645
N74-30156* c 75 ..... NASA-CASE-ARC-10598-1
US-PATENT-APPL-SN-318151
US-PATENT-CLASS-356-201
US-PATENT-CLASS-356-43
US-PATENT-CLASS-356-73
US-PATENT-CLASS-356-85
US-PATENT-CLASS-356-87
US-PATENT-3,817,622
N74-30421* c 08 ..... NASA-CASE-LAR-10753-1
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US-PATENT-CLASS-244-327
US-PATENT-CLASS-244-90R
US-PATENT-CLASS-244-91
US-PATENT-3,826,448
N74-30502* c 25 ..... NASA-CASE-LEW-10906-1
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US-PATENT-APPL-SN-876588
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US-PATENT-3,826,726
N74-30523* c 32 ..... NASA-CASE-NPO-11921-1
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US-PATENT-CLASS-179-15BC
US-PATENT-CLASS-325-346
US-PATENT-3,828,138
N74-30524* c 32 ..... NASA-CASE-MSC-13912-1
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US-PATENT-CLASS-179-15AT
US-PATENT-CLASS-179-15BY
US-PATENT-3,828,137
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US-PATENT-APPL-SN-261183
US-PATENT-CLASS-35-12E
US-PATENT-3,824,707
N74-30608* c 34 ..... NASA-CASE-LAR-10194-1
US-PATENT-APPL-SN-169962
US-PATENT-CLASS-55-159
US-PATENT-CLASS-55-199
US-PATENT-CLASS-55-43
US-PATENT-3,828,524
N74-30886* c 89 ..... NASA-CASE-GSC-11569-1
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US-PATENT-CLASS-33-268
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-147
US-PATENT-3,827,807
N74-31148* c 71 ..... NASA-CASE-NPO-11623-1
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US-PATENT-CLASS-181.5R
US-PATENT-CLASS-73-69
US-PATENT-CLASS-73-71.5R
US-PATENT-3,827,288
N74-31269* c 20 ..... NASA-CASE-LEW-11646-1
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US-PATENT-3,826,729
N74-31270* c 07 ..... NASA-CASE-LAR-10642-1
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US-PATENT-CLASS-415-181
US-PATENT-3,829,237
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US-PATENT-CLASS-181-33C
US-PATENT-CLASS-181-33F
US-PATENT-CLASS-181-33H
US-PATENT-CLASS-181-33L
US-PATENT-CLASS-181-42
US-PATENT-3,830,335
N74-32546* c 54 ..... NASA-CASE-MSC-11072
US-PATENT-APPL-SN-689455
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US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-82
US-PATENT-3,832,735
N74-32598* c 32 ..... NASA-CASE-MSC-14070-1
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US-PATENT-CLASS-340-146.1AQ
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N74-32660* c 33 ..... NASA-CASE-GSC-11617-1
US-PATENT-APPL-SN-402865
US-PATENT-CLASS-330-4.9
US-PATENT-CLASS-330-53
US-PATENT-3,833,857
N74-32711* c 33 ..... NASA-CASE-MSC-14130-1
US-PATENT-APPL-SN-373587
US-PATENT-CLASS-307-267
US-PATENT-CLASS-328-58
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N74-32712* c 33 ..... NASA-CASE-NPO-11948-1
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US-PATENT-CLASS-307-230
US-PATENT-CLASS-330-69
US-PATENT-CLASS-333-80R
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US-PATENT-CLASS-33-23R
US-PATENT-CLASS-338-89
US-PATENT-CLASS-340-347AD
US-PATENT-CLASS-346-33R
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US-PATENT-CLASS-73-388
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US-PATENT-CLASS-73-40.7
US-PATENT-3,830,094
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US-PATENT-CLASS-425-35
US-PATENT-3,833,322
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US-PATENT-APPL-SN-370872
US-PATENT-CLASS-29-203H
US-PATENT-CLASS-29-268
US-PATENT-3,832,764
N74-32919* c 20 ..... NASA-CASE-LEW-11118-1
US-PATENT-APPL-SN-289050
US-PATENT-CLASS-204-9
US-PATENT-3,832,290
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US-PATENT-APPL-SN-198763
US-PATENT-APPL-SN-350300
US-PATENT-CLASS-249-145
US-PATENT-CLASS-249-184
US-PATENT-CLASS-249-83
US-PATENT-CLASS-249-95
US-PATENT-CLASS-425-128
US-PATENT-CLASS-425-415
US-PATENT-3,830,609
N74-32921* c 37 ..... NASA-CASE-LEW-11076-2
US-PATENT-APPL-SN-238264
US-PATENT-APPL-SN-346483
US-PATENT-CLASS-308-121
US-PATENT-3,830,552
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US-PATENT-APPL-SN-329243
US-PATENT-CLASS-149-17
US-PATENT-CLASS-149-60
US-PATENT-CLASS-149-76
US-PATENT-3,830,673
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US-PATENT-APPL-SN-344410
US-PATENT-CLASS-181-33HC
US-PATENT-CLASS-239-265.11
US-PATENT-3,830,431
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US-PATENT-APPL-SN-392823
US-PATENT-CLASS-23-277C
US-PATENT-CLASS-431-202
US-PATENT-3,833,336
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US-PATENT-APPL-SN-336319
US-PATENT-CLASS-60-527
US-PATENT-3,830,060
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US-PATENT-APPL-SN-329237
US-PATENT-CLASS-307-18
US-PATENT-CLASS-307-295
US-PATENT-CLASS-307-304
US-PATENT-CLASS-307-35
US-PATENT-3,840,829
N74-34672* c 85 ..... NASA-CASE-LAR-10256-1
US-PATENT-APPL-SN-220785
US-PATENT-CLASS-104-138R
US-PATENT-CLASS-104-23FS
US-PATENT-CLASS-238-134
US-PATENT-3,837,285
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US-PATENT-APPL-SN-188836
US-PATENT-APPL-SN-357126
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-295
US-PATENT-3,835,318
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US-PATENT-CLASS-195-103.5R
US-PATENT-3,846,243
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US-PATENT-CLASS-117-161UN
US-PATENT-CLASS-117-161UZ
US-PATENT-CLASS-117-93.1GD
US-PATENT-CLASS-204-177
US-PATENT-CLASS-210-500
US-PATENT-CLASS-264-217
US-PATENT-CLASS-264-22
US-PATENT-3,847,652
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US-PATENT-CLASS-118-49.1
US-PATENT-3,847,115
N75-12222* c 34 ..... NASA-CASE-GSC-11619-1
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US-PATENT-CLASS-138-113
US-PATENT-CLASS-138-114
US-PATENT-CLASS-138-148
US-PATENT-CLASS-165-1
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-47
US-PATENT-CLASS-220-15
US-PATENT-CLASS-244-1SC
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US-PATENT-CLASS-324-60C
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US-PATENT-CLASS-33-180R
US-PATENT-CLASS-350-292
US-PATENT-3,842,509
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US-PATENT-CLASS-29-470.1
US-PATENT-CLASS-29-475
US-PATENT-3,842,485
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US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-307-149
US-PATENT-CLASS-308-174

US-PATENT-3,849,668
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US-PATENT-CLASS-156-18
US-PATENT-CLASS-156-7
US-PATENT-CLASS-250-495
US-PATENT-3,847,689
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US-PATENT-CLASS-73-32R
US-PATENT-CLASS-73-432PS
US-PATENT-3,842,656
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US-PATENT-CLASS-244-83R
US-PATENT-CLASS-416-25
US-PATENT-CLASS-74-480R
US-PATENT-3,850,388
N75-12968* c 09 ..... NASA-CASE-MFS-22039-1
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US-PATENT-CLASS-108-136
US-PATENT-3,853,075
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US-PATENT-CLASS-249-59
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US-PATENT-CLASS-310-52
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US-PATENT-CLASS-60-530
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US-PATENT-APPL-SN-836280
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US-PATENT-CLASS-118-49.1
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US-PATENT-CLASS-325-4

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US-PATENT-CLASS-235-181
US-PATENT-CLASS-324-83Q
US-PATENT-CLASS-328-133
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US-PATENT-CLASS-324-58.5C
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US-PATENT-CLASS-233-25
US-PATENT-CLASS-233-46
US-PATENT-CLASS-233-6
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US-PATENT-CLASS-117-126R
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US-PATENT-CLASS-161-93
US-PATENT-CLASS-29-182.2
US-PATENT-CLASS-29-182.5
US-PATENT-CLASS-29-420.5
US-PATENT-CLASS-65-3
US-PATENT-CLASS-75-DIG.1
US-PATENT-CLASS-75-200
US-PATENT-CLASS-75-208R
US-PATENT-CLASS-75-212
US-PATENT-CLASS-75-214
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US-PATENT-CLASS-128-24A
US-PATENT-CLASS-74-471XY
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US-PATENT-CLASS-23-255E
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US-PATENT-CLASS-73-23
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US-PATENT-APPL-SN-844243
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US-PATENT-CLASS-260-520
US-PATENT-CLASS-260-78TF
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US-PATENT-CLASS-333-21R
US-PATENT-CLASS-333-83BT
US-PATENT-CLASS-333-98R
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US-PATENT-CLASS-250-351
US-PATENT-CLASS-250-373
US-PATENT-CLASS-356-51
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US-PATENT-CLASS-73-195
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US-PATENT-CLASS-307-211
US-PATENT-CLASS-307-219
US-PATENT-CLASS-328-61
US-PATENT-CLASS-328-62
US-PATENT-3,900,741
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US-PATENT-CLASS-331-DIG.1
US-PATENT-3,899,696
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US-PATENT-APPL-SN-405346
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US-PATENT-CLASS-308-73
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N75-30876* c 73 ..... NASA-CASE-LEW-11227-1
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US-PATENT-CLASS-250-496
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US-PATENT-CLASS-73-88.5
US-PATENT-3,905,356

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US-PATENT-APPL-SN-45053
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US-PATENT-CLASS-328-41
US-PATENT-3,906,374

N75-31331* c 33 ..... NASA-CASE-NPO-11156-2
US-PATENT-APPL-SN-174684
US-PATENT-CLASS-307-238
US-PATENT-CLASS-340-173CA
US-PATENT-CLASS-357-24
US-PATENT-CLASS-357-7
US-PATENT-3,906,296

N75-31332* c 33 ..... NASA-CASE-NPO-13348-1
US-PATENT-APPL-SN-452770
US-PATENT-CLASS-250-238
US-PATENT-CLASS-250-370
US-PATENT-CLASS-357-5
US-PATENT-3,906,231

N75-31426* c 36 ..... NASA-CASE-ARC-10370-1
US-PATENT-APPL-SN-137391
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US-PATENT-CLASS-331-94.5P
US-PATENT-3,906,397

N75-31427* c 36 ..... NASA-CASE-NPO-13175-1
US-PATENT-APPL-SN-374423
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-350-161
US-PATENT-CLASS-350-96WG
US-PATENT-3,906,393

N75-31446* c 37 ..... NASA-CASE-LEW-11925-1
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US-PATENT-CLASS-308-195
US-PATENT-CLASS-308-201
US-PATENT-3,905,660

N75-32441* c 36 ..... NASA-CASE-NPO-13449-1
US-PATENT-APPL-SN-420813
US-PATENT-CLASS-310-11
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5PE
US-PATENT-CLASS-331-94-5G
US-PATENT-3,906,398

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US-PATENT-CLASS-244-173
US-PATENT-CLASS-60-641
US-PATENT-CLASS-60-659
US-PATENT-3,903,699

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US-PATENT-APPL-SN-356554
US-PATENT-CLASS-117-105.2
US-PATENT-CLASS-117-38
US-PATENT-CLASS-117-46FS
US-PATENT-CLASS-117-8.5
US-PATENT-CLASS-29-DIG.24
US-PATENT-CLASS-29-DIG.39
US-PATENT-CLASS-29-527.2
US-PATENT-CLASS-72-46
US-PATENT-3,906,769

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US-PATENT-CLASS-210-304
US-PATENT-CLASS-210-333
US-PATENT-CLASS-210-340
US-PATENT-CLASS-210-411
US-PATENT-CLASS-210-425
US-PATENT-CLASS-210-512
US-PATENT-CLASS-210-82
US-PATENT-3,907,686

N75-33367* c 35 ..... NASA-CASE-LAR-10629-1
US-PATENT-APPL-SN-402867
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US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-432PS
US-PATENT-3,896,758

N75-33368* c 35 ..... NASA-CASE-LAR-11326-1
US-PATENT-APPL-SN-491416
US-PATENT-CLASS-195-103.5R
US-PATENT-3,907,646

N75-33369* c 35 ..... NASA-CASE-LAR-11263-1
US-PATENT-APPL-SN-472775
US-PATENT-CLASS-73-141A
US-PATENT-3,906,788

N75-33395* c 37 ..... NASA-CASE-MFS-22283-1
US-PATENT-APPL-SN-387095
US-PATENT-CLASS-279-1B
US-PATENT-CLASS-279-107
US-PATENT-CLASS-279-89
US-PATENT-CLASS-29-26A
US-PATENT-CLASS-294-116
US-PATENT-CLASS-294-86.33
US-PATENT-3,907,312

N75-33640* c 52 ..... NASA-CASE-LEW-12051-1
US-PATENT-APPL-SN-397478
US-PATENT-CLASS-128-230
US-PATENT-CLASS-128-305
US-PATENT-3,906,954

N76-14158* c 15 ..... NASA-CASE-LAR-11051-1
US-PATENT-APPL-SN-384773
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-3.21
US-PATENT-CLASS-74-5.7
US-PATENT-3,915,416

N76-14186* c 18 ..... NASA-CASE-MSC-12559-1
US-PATENT-APPL-SN-370582
US-PATENT-CLASS-178-DIG.20
US-PATENT-CLASS-244-161
US-PATENT-CLASS-33-286
US-PATENT-CLASS-35-12
US-PATENT-CLASS-356-153
US-PATENT-3,910,533

N76-14190* c 20 ..... NASA-CASE-LEW-11593-1
US-PATENT-APPL-SN-363691
US-PATENT-CLASS-60-39.23
US-PATENT-CLASS-60-39.29
US-PATENT-CLASS-60-39.74R
US-PATENT-3,910,035

N76-14191* c 20 ..... NASA-CASE-LEW-11118-2
US-PATENT-APPL-SN-436316
US-PATENT-CLASS-239-127.3
US-PATENT-CLASS-60-265
US-PATENT-CLASS-60-267
US-PATENT-3,910,039

N76-14203* c 24 ..... NASA-CASE-NPO-12122-1
US-PATENT-APPL-SN-401921
US-PATENT-CLASS-149-36
US-PATENT-CLASS-423-407
US-PATENT-3,919,014

N76-14204* c 24 ..... NASA-CASE-MSC-12568-1
US-PATENT-APPL-SN-325784
US-PATENT-CLASS-136-146
US-PATENT-CLASS-136-148
US-PATENT-CLASS-162-102
US-PATENT-CLASS-162-153
US-PATENT-CLASS-162-222
US-PATENT-CLASS-162-228
US-PATENT-3,910,814

N76-14264* c 27 ..... NASA-CASE-MSC-14182-1
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US-PATENT-CLASS-403-28
US-PATENT-CLASS-428-109
US-PATENT-CLASS-428-212
US-PATENT-CLASS-428-214
US-PATENT-CLASS-428-416
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-77
US-PATENT-3,920,339

N76-14284* c 31 ..... NASA-CASE-NPO-13435-1
US-PATENT-APPL-SN-478803
US-PATENT-CLASS-62-129
US-PATENT-CLASS-62-49
US-PATENT-CLASS-73-295
US-PATENT-3,914,950

N76-14321* c 32 ..... NASA-CASE-LAR-11021-1
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US-PATENT-CLASS-325-306
US-PATENT-CLASS-325-372
US-PATENT-CLASS-328-145
US-PATENT-CLASS-343-176
US-PATENT-3,916,316

N76-14371* c 33 ..... NASA-CASE-KSC-10834-1
US-PATENT-APPL-SN-536535
US-PATENT-CLASS-178-69.5R
US-PATENT-CLASS-178-88
US-PATENT-CLASS-328-190
US-PATENT-CLASS-328-63
US-PATENT-3,916,084

N76-14372* c 33 ..... NASA-CASE-LAR-10970-1
US-PATENT-APPL-SN-527790
US-PATENT-CLASS-343-770
US-PATENT-CLASS-343-797
US-PATENT-CLASS-343-846
US-PATENT-3,919,710

N76-14373* c 33 ..... NASA-CASE-NPO-13451-1
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US-PATENT-CLASS-235-92SH
US-PATENT-CLASS-307-221R
US-PATENT-CLASS-328-37
US-PATENT-3,911,330

N76-14429* c 35 ..... NASA-CASE-LAR-11552-1
US-PATENT-APPL-SN-518685
US-PATENT-CLASS-73-182
US-PATENT-CLASS-73-212
US-PATENT-3,914,997

N76-14430* c 35 ..... NASA-CASE-NPO-13170-1
US-PATENT-APPL-SN-382261
US-PATENT-CLASS-338-6
US-PATENT-CLASS-73-88.5R
US-PATENT-3,914,991

N76-14431* c 35 ..... NASA-CASE-LEW-11915-1
US-PATENT-APPL-SN-474744
US-PATENT-CLASS-137-15.2
US-PATENT-CLASS-235-151.34
US-PATENT-CLASS-60-39.29
US-PATENT-3,911,260

N76-14447* c 36 ..... NASA-CASE-ARC-10642-1
US-PATENT-APPL-SN-446562
US-PATENT-CLASS-356-106R
US-PATENT-CLASS-356-28
US-PATENT-3,915,572

N76-14460* c 37 ..... NASA-CASE-MFS-19194-1
US-PATENT-APPL-SN-483850
US-PATENT-CLASS-285-226
US-PATENT-CLASS-285-265
US-PATENT-3,915,482

N76-14461* c 37 ..... NASA-CASE-LEW-11694-2
US-PATENT-APPL-SN-352381
US-PATENT-APPL-SN-462903
US-PATENT-CLASS-29-421
US-PATENT-CLASS-72-363
US-PATENT-CLASS-72-54
US-PATENT-CLASS-72-63
US-PATENT-3,914,969

N76-14463* c 37 ..... NASA-CASE-MFS-22323-1
US-PATENT-APPL-SN-474745
US-PATENT-CLASS-137-515.3
US-PATENT-CLASS-137-550
US-PATENT-CLASS-210-429
US-PATENT-CLASS-251-149.6
US-PATENT-3,910,307

N76-14595* c 44 ..... NASA-CASE-MFS-22562-1
US-PATENT-APPL-SN-458484
US-PATENT-CLASS-126-270
US-PATENT-CLASS-136-206
US-PATENT-CLASS-204-32R
US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-38A
US-PATENT-CLASS-204-40
US-PATENT-CLASS-204-42
US-PATENT-CLASS-204-49
US-PATENT-CLASS-29-194
US-PATENT-CLASS-29-195
US-PATENT-CLASS-29-197
US-PATENT-3,920,413

N76-14600* c 44 ..... NASA-CASE-LEW-11065-2
US-PATENT-APPL-SN-154930
US-PATENT-APPL-SN-371322
US-PATENT-CLASS-136-89
US-PATENT-CLASS-29-572
US-PATENT-3,912,540

N76-14601* c 44 ..... NASA-CASE-MFS-22749-1
US-PATENT-APPL-SN-483857
US-PATENT-CLASS-136-114
US-PATENT-CLASS-136-162
US-PATENT-CLASS-136-182
US-PATENT-CLASS-136-90
US-PATENT-3,912,541

N76-14602* c 44 ..... NASA-CASE-NPO-13497-1
US-PATENT-APPL-SN-526448
US-PATENT-CLASS-126-271
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-211
US-PATENT-3,915,148

N76-14757* c 52 ..... NASA-CASE-MSC-14180-1
US-PATENT-APPL-SN-354406
US-PATENT-CLASS-128-2.06R
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
US-PATENT-3,910,257

N76-14804* c 54 ..... NASA-CASE-MSC-14640-1
US-PATENT-APPL-SN-526449
US-PATENT-CLASS-128-2F
US-PATENT-CLASS-73-421R
US-PATENT-3,915,012

N76-14818* c 60 ..... NASA-CASE-NPO-13422-1
US-PATENT-APPL-SN-521601
US-PATENT-CLASS-340-147C
US-PATENT-CLASS-340-147R
US-PATENT-3,916,380

N76-14931* c 75 ..... NASA-CASE-MFS-22287-1
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US-PATENT-CLASS-73-12
US-PATENT-CLASS-89-8
US-PATENT-3,916,761

N76-15189* c 12 ..... NASA-CASE-MSC-12611-1
US-PATENT-APPL-SN-446560
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-293
US-PATENT-CLASS-427-162
US-PATENT-CLASS-427-250
US-PATENT-3,927,227

N76-15268* c 23 ..... NASA-CASE-MFS-22355-1
US-PATENT-APPL-SN-487852
US-PATENT-CLASS-260-32.6N
US-PATENT-CLASS-260-32.8N
US-PATENT-CLASS-260-346.3
US-PATENT-CLASS-260-47CP
US-PATENT-CLASS-260-571
US-PATENT-CLASS-260-78TF
US-PATENT-3,925,312

N76-15310* c 27 ..... NASA-CASE-ARC-10714-1
US-PATENT-APPL-SN-398885
US-PATENT-CLASS-260-2.5AK
US-PATENT-CLASS-427-196
US-PATENT-CLASS-427-426
US-PATENT-CLASS-428-303
US-PATENT-3,916,060

N76-15311* c 27 ..... NASA-CASE-NPO-13120-1
US-PATENT-APPL-SN-348422
US-PATENT-CLASS-29-182.5
US-PATENT-3,926,567

N76-15329* c 32 ..... NASA-CASE-GSC-11968-1
US-PATENT-APPL-SN-512825
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-876
US-PATENT-3,927,408

N76-15330* c 32 ..... NASA-CASE-LAR-11112-1
US-PATENT-APPL-SN-491419
US-PATENT-CLASS-343-786
US-PATENT-3,924,237

N76-15373* c 33 ..... NASA-CASE-LEW-11938-1
US-PATENT-APPL-SN-544611
US-PATENT-CLASS-317-258
US-PATENT-CLASS-317-261
US-PATENT-3,924,164

N76-15431* c 35 ..... NASA-CASE-MSC-13802-2
US-PATENT-APPL-SN-189438
US-PATENT-APPL-SN-475338
US-PATENT-CLASS-250-251
US-PATENT-CLASS-250-287
US-PATENT-CLASS-250-423
US-PATENT-3,916,187

N76-15432* c 35 ..... NASA-CASE-LAR-11435-1
US-PATENT-APPL-SN-522556
US-PATENT-CLASS-310-8.2
US-PATENT-CLASS-73-1R
US-PATENT-3,924,444

N76-15433* c 35 ..... NASA-CASE-GSC-11892-1
US-PATENT-APPL-SN-502135
US-PATENT-CLASS-250-336
US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-489
US-PATENT-3,927,324

N76-15434* c 35 ..... NASA-CASE-LEW-11072-2
US-PATENT-APPL-SN-254323
US-PATENT-CLASS-136-211
US-PATENT-CLASS-136-212
US-PATENT-CLASS-136-225
US-PATENT-3,925,104

N76-15435* c 35 ..... NASA-CASE-NPO-13506-1
US-PATENT-APPL-SN-483851
US-PATENT-CLASS-343-909
US-PATENT-3,924,239

N76-15436* c 35 ..... NASA-CASE-GSC-11895-1
US-PATENT-APPL-SN-511887
US-PATENT-CLASS-331-3
US-PATENT-CLASS-331-94
US-PATENT-3,924,200

N76-15457* c 37 ..... NASA-CASE-MFS-22707-1
US-PATENT-APPL-SN-535410
US-PATENT-CLASS-214-1R
US-PATENT-CLASS-74-384
US-PATENT-CLASS-74-665B
US-PATENT-3,922,930

N76-15460* c 37 ..... NASA-CASE-MFS-22022-1
US-PATENT-APPL-SN-405341
US-PATENT-CLASS-214-ICM
US-PATENT-3,923,166

N76-15461* c 37 ..... NASA-CASE-LEW-11076-4
US-PATENT-APPL-SN-238264
US-PATENT-APPL-SN-346483
US-PATENT-APPL-SN-445178
US-PATENT-CLASS-308-122
US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-72
US-PATENT-CLASS-308-73
US-PATENT-CLASS-308-9
US-PATENT-3,926,482

N76-15860* c 72 ..... NASA-CASE-LEW-11866-1
US-PATENT-APPL-SN-500980
US-PATENT-CLASS-250-499
US-PATENT-CLASS-250-500
US-PATENT-3,924,137

N76-16014* c 02 ..... NASA-CASE-LAR-11575-1
US-PATENT-APPL-SN-527727
US-PATENT-CLASS-244-139
US-PATENT-3,930,628

N76-16228* c 27 ..... NASA-CASE-NPO-12061-1
US-PATENT-APPL-SN-45549
US-PATENT-CLASS-260-879
US-PATENT-CLASS-260-900
US-PATENT-CLASS-260-92.1
US-PATENT-3,931,132

N76-16229* c 27 ..... NASA-CASE-LEW-11179-1
US-PATENT-APPL-SN-357312
US-PATENT-CLASS-29-195A
US-PATENT-CLASS-427-203
US-PATENT-CLASS-427-204
US-PATENT-CLASS-427-205
US-PATENT-CLASS-427-270
US-PATENT-CLASS-427-275
US-PATENT-CLASS-427-287
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-469
US-PATENT-CLASS-428-539
US-PATENT-3,931,447

N76-16230* c 27 ..... NASA-CASE-ARC-10813-1
US-PATENT-APPL-SN-437556
US-PATENT-CLASS-264-331
US-PATENT-CLASS-428-412
US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-911
US-PATENT-CLASS-428-920
US-PATENT-CLASS-428-921
US-PATENT-3,928,708

N76-16249* c 32 ..... NASA-CASE-MSC-14557-1
US-PATENT-APPL-SN-428994
US-PATENT-APPL-SN-464720
US-PATENT-CLASS-178-69C
US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-321
US-PATENT-3,924,068

N76-16331* c 33 ..... NASA-CASE-MSC-14649-1
US-PATENT-APPL-SN-505819
US-PATENT-CLASS-324-79D
US-PATENT-CLASS-328-134
US-PATENT-3,924,183

N76-16332* c 33 ..... NASA-CASE-GSC-11849-1
US-PATENT-APPL-SN-470428
US-PATENT-CLASS-174-145
US-PATENT-CLASS-174-148
US-PATENT-CLASS-339-143C
US-PATENT-CLASS-339-198R
US-PATENT-CLASS-339-242
US-PATENT-CLASS-339-275R
US-PATENT-3,931,456

N76-16390* c 35 ..... NASA-CASE-NPO-13388-1
US-PATENT-APPL-SN-522552
US-PATENT-CLASS-324-43R
US-PATENT-3,924,176

N76-16391* c 35 ..... NASA-CASE-NPO-10166-2
US-PATENT-APPL-SN-192803
US-PATENT-APPL-SN-668116
US-PATENT-CLASS-360-10
US-PATENT-CLASS-360-101
US-PATENT-CLASS-360-35
US-PATENT-CLASS-360-9
US-PATENT-3,924,267

N76-16392* c 35 ..... NASA-CASE-LAR-11458-1
US-PATENT-APPL-SN-504225
US-PATENT-CLASS-294-1R
US-PATENT-CLASS-294-19R
US-PATENT-3,929,364

N76-16393* c 35 ..... NASA-CASE-GSC-11889-1
US-PATENT-APPL-SN-502124
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-287
US-PATENT-CLASS-250-288
US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-423
US-PATENT-3,931,516

N76-16446*# c 37 ..... NASA-CASE-NPO-13342-1
US-PATENT-APPL-SN-390049

N76-16612* c 44 ..... NASA-CASE-MFS-22002-1
US-PATENT-APPL-SN-452769
US-PATENT-CLASS-136-202
US-PATENT-CLASS-136-210
US-PATENT-CLASS-165-105
US-PATENT-CLASS-310-4
US-PATENT-3,931,532

N76-17185* c 18 ..... NASA-CASE-MSC-12561-1
US-PATENT-APPL-SN-448323
US-PATENT-CLASS-244-162
US-PATENT-CLASS-244-172
US-PATENT-3,929,306

N76-17317* c 34 ..... NASA-CASE-LAR-10799-2
US-PATENT-APPL-SN-301419
US-PATENT-APPL-SN-419319
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-106
US-PATENT-CLASS-237-60
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-135R
US-PATENT-CLASS-417-209
US-PATENT-3,929,305

N76-17656* c 45 ..... NASA-CASE-LAR-11675-1
US-PATENT-APPL-SN-557448
US-PATENT-CLASS-178-DIG.1
US-PATENT-CLASS-178-DIG.8
US-PATENT-CLASS-178-6.8
US-PATENT-CLASS-250-373
US-PATENT-CLASS-340-237S
US-PATENT-CLASS-356-207
US-PATENT-3,931,462

N76-17951* c 75 ..... NASA-CASE-MFS-22145-2
US-PATENT-APPL-SN-367606
US-PATENT-APPL-SN-500982
US-PATENT-CLASS-124-1
US-PATENT-CLASS-124-11R
US-PATENT-CLASS-89-8
US-PATENT-3,929,119

N76-18117* c 07 ..... NASA-CASE-LAR-11674-1
US-PATENT-APPL-SN-331759
US-PATENT-APPL-SN-488616
US-PATENT-CLASS-181-33HC
US-PATENT-CLASS-239-265.11
US-PATENT-3,938,742

N76-18245* c 25 ..... NASA-CASE-NPO-13063-1
US-PATENT-APPL-SN-227977
US-PATENT-CLASS-23-230M
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-253R
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-23-255R
US-PATENT-CLASS-235-151.13
US-PATENT-CLASS-73-23.1
US-PATENT-3,860,393

N76-18257* c 26 ..... NASA-CASE-MFS-22907-1
US-PATENT-APPL-SN-518546
US-PATENT-CLASS-324-34R
US-PATENT-3,938,037

N76-18295* c 32 ..... NASA-CASE-GSC-11862-1
US-PATENT-APPL-SN-500979
US-PATENT-CLASS-343-837
US-PATENT-CLASS-343-840
US-PATENT-CLASS-343-912
US-PATENT-CLASS-343-915
US-PATENT-3,938,162

N76-18345* c 33 ..... NASA-CASE-NPO-13385-1
US-PATENT-APPL-SN-501011
US-PATENT-CLASS-340-347AD
US-PATENT-3,938,188

N76-18353* c 33 ..... NASA-CASE-GSC-11925-1
US-PATENT-APPL-SN-538983
US-PATENT-CLASS-360-26
US-PATENT-CLASS-360-51
US-PATENT-3,938,182

N76-18364* c 34 ..... NASA-CASE-LAR-11570-1
US-PATENT-APPL-SN-482967
US-PATENT-CLASS-244-23D
US-PATENT-CLASS-60-316
US-PATENT-3,940,097

N76-18374* c 34 ..... NASA-CASE-MFS-22938-1
US-PATENT-APPL-SN-542754
US-PATENT-CLASS-250-335
US-PATENT-3,940,621

N76-18400* c 35 ..... NASA-CASE-LAR-10208-1
US-PATENT-APPL-SN-483858
US-PATENT-CLASS-73-103
US-PATENT-CLASS-73-95
US-PATENT-3,938,373

N76-18401* c 35 ..... NASA-CASE-NPO-13396-1
US-PATENT-APPL-SN-563283
US-PATENT-CLASS-55-261
US-PATENT-CLASS-73-28
US-PATENT-CLASS-73-421.5R
US-PATENT-3,938,367

N76-18402* c 35 ..... NASA-CASE-MFS-22517-1
US-PATENT-APPL-SN-506804
US-PATENT-CLASS-350-3.5
US-PATENT-3,937,555

N76-18403* c 35 ..... NASA-CASE-ARC-10322-1
US-PATENT-APPL-SN-484209
US-PATENT-CLASS-23-254EF
US-PATENT-3,938,956

N76-18427* c 36 ..... NASA-CASE-NPO-11945-1
US-PATENT-APPL-SN-269450
US-PATENT-CLASS-331-94.5

US-PATENT-CLASS-332-7.51
US-PATENT-CLASS-350-150
US-PATENT-CLASS-350-160
US-PATENT-CLASS-423-352
US-PATENT-CLASS-423-644
US-PATENT-3,806,834

N76-18428* c 36 ..... NASA-CASE-NPO-13544-1
US-PATENT-APPL-SN-533555
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-350-96WG
US-PATENT-3,939,439

N76-18454* c 37 ..... NASA-CASE-MFS-23047-1
US-PATENT-APPL-SN-521602
US-PATENT-CLASS-173-132
US-PATENT-CLASS-29-81D
US-PATENT-CLASS-72-453
US-PATENT-CLASS-73-399
US-PATENT-3,937,055

N76-18455* c 37 ..... NASA-CASE-MSC-14435-1
US-PATENT-APPL-SN-450500
US-PATENT-CLASS-228-193
US-PATENT-CLASS-228-206
US-PATENT-CLASS-228-214
US-PATENT-CLASS-228-238
US-PATENT-3,937,387

N76-18456* c 37 ..... NASA-CASE-LAR-11224-1
US-PATENT-APPL-SN-450502
US-PATENT-CLASS-134-21
US-PATENT-CLASS-134-37
US-PATENT-CLASS-19-205
US-PATENT-CLASS-209-250
US-PATENT-CLASS-209-300
US-PATENT-CLASS-209-305
US-PATENT-3,937,661

N76-18457* c 37 ..... NASA-CASE-NPO-13402-1
US-PATENT-APPL-SN-387342
US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-119E
US-PATENT-CLASS-123-120
US-PATENT-CLASS-123-121
US-PATENT-CLASS-123-89A
US-PATENT-3,906,913

N76-18458* c 37 ..... NASA-CASE-LEW-11860-1
US-PATENT-APPL-SN-527728
US-PATENT-CLASS-204-157.1H
US-PATENT-CLASS-250-527
US-PATENT-3,939,048

N76-18459* c 37 ..... NASA-CASE-GSC-11551-1
US-PATENT-APPL-SN-440917
US-PATENT-CLASS-308-10
US-PATENT-3,937,533

N76-18641* c 44 ..... NASA-CASE-NPO-13237-1
US-PATENT-APPL-SN-378127
US-PATENT-CLASS-136-83R
US-PATENT-CLASS-136-86S
US-PATENT-3,894,887

N76-18642* c 44 ..... NASA-CASE-NPO-13464-1
US-PATENT-APPL-SN-428444
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-116
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-63
US-PATENT-CLASS-48-75
US-PATENT-CLASS-48-95
US-PATENT-3,920,416

N76-18643* c 44 ..... NASA-CASE-NPO-11961-1
US-PATENT-APPL-SN-378126
US-PATENT-CLASS-136-30
US-PATENT-CLASS-136-6LF
US-PATENT-CLASS-320-21
US-PATENT-CLASS-320-22
US-PATENT-3,912,999

N76-18800* c 60 ..... NASA-CASE-NPO-13067-1
US-PATENT-APPL-SN-274348
US-PATENT-CLASS-340-172.5
US-PATENT-3,829,839

N76-18913* c 74 ..... NASA-CASE-GSC-11877-1
US-PATENT-APPL-SN-482953
US-PATENT-CLASS-235-184
US-PATENT-CLASS-250-199
US-PATENT-3,937,945

N76-19338* c 33 ..... NASA-CASE-NPO-13519-1
US-PATENT-APPL-SN-536761
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-33-155R
US-PATENT-CLASS-33-174D
US-PATENT-CLASS-73-88.5SD
US-PATENT-3,937,212

N76-19339* c 33 ..... NASA-CASE-ARC-10810-1
US-PATENT-APPL-SN-489009
US-PATENT-CLASS-204-195R
US-PATENT-CLASS-215-247
US-PATENT-CLASS-324-30B
US-PATENT-3,938,035

N76-19436* c 37 ..... NASA-CASE-MFS-20607-1
US-PATENT-APPL-SN-478800
US-PATENT-CLASS-222-145
US-PATENT-CLASS-259-4AC
US-PATENT-3,941,355

N76-19437* c 37 ..... NASA-CASE-MSC-12615-1
US-PATENT-APPL-SN-491417
US-PATENT-CLASS-244-117A
US-PATENT-CLASS-244-163
US-PATENT-CLASS-29-432
US-PATENT-CLASS-29-433
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-705
US-PATENT-CLASS-52-758F
US-PATENT-3,936,927

N76-19785* c 52 ..... NASA-CASE-LAR-11667-1
US-PATENT-APPL-SN-583487
US-PATENT-CLASS-128-DIG.20
US-PATENT-CLASS-128-26
US-PATENT-3,937,215

N76-19888* c 66 ..... NASA-CASE-MFS-22631-1
US-PATENT-APPL-SN-531572
US-PATENT-CLASS-340-38P
US-PATENT-CLASS-356-162
US-PATENT-CLASS-356-167
US-PATENT-CLASS-356-71
US-PATENT-3,930,735

N76-19935* c 74 ..... NASA-CASE-MFS-21672-1
US-PATENT-APPL-SN-354060
US-PATENT-CLASS-356-123
US-PATENT-CLASS-356-124
US-PATENT-3,938,892

N76-20114* c 04 ..... NASA-CASE-LAR-11387-1
US-PATENT-APPL-SN-531647
US-PATENT-CLASS-33-356
US-PATENT-CLASS-75-178R
US-PATENT-3,943,763

N76-20480* c 37 ..... NASA-CASE-NPO-13059-1
NASA-CASE-NPO-13436-1
US-PATENT-APPL-SN-513690
US-PATENT-CLASS-81-56
US-PATENT-CLASS-81-57.31
US-PATENT-3,942,398

N76-20958* c 74 ..... NASA-CASE-ARC-10631-1
US-PATENT-APPL-SN-514546
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-573
US-PATENT-3,943,368

N76-20994* c 76 ..... NASA-CASE-NPO-13443-1
US-PATENT-APPL-SN-522551
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158R
US-PATENT-CLASS-324-158T
US-PATENT-CLASS-324-60C
US-PATENT-3,943,442

N76-21250* c 17 ..... NASA-CASE-MSC-12593-1
US-PATENT-APPL-SN-419747
US-PATENT-CLASS-325-14
US-PATENT-CLASS-343-100SA
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-112TC
US-PATENT-3,949,400

N76-21275* c 20 ..... NASA-CASE-MFS-21311-1
US-PATENT-APPL-SN-493359
US-PATENT-CLASS-244-3.22
US-PATENT-3,948,470

N76-21276* c 20 ..... NASA-CASE-LEW-11876-1
US-PATENT-APPL-SN-542157
US-PATENT-CLASS-29-25.18
US-PATENT-3,947,933

N76-21365* c 32 ..... NASA-CASE-NPO-13568-1
US-PATENT-APPL-SN-534265
US-PATENT-CLASS-343-761
US-PATENT-CLASS-343-781
US-PATENT-CLASS-343-786
US-PATENT-3,949,404

N76-21366* c 32 ..... NASA-CASE-MFS-22729-1
US-PATENT-APPL-SN-533608
US-PATENT-CLASS-235-156
US-PATENT-CLASS-325-42
US-PATENT-CLASS-333-18
US-PATENT-3,949,206

N76-21390* c 33 ..... NASA-CASE-ARC-10711-2
US-PATENT-APPL-SN-493363
US-PATENT-APPL-SN-596788
US-PATENT-CLASS-317-246
US-PATENT-CLASS-73-398C
US-PATENT-3,948,102

N76-21554* c 37 ..... NASA-CASE-LAR-11465-1
US-PATENT-APPL-SN-502137
US-PATENT-CLASS-156-286
US-PATENT-CLASS-156-382
US-PATENT-CLASS-156-556
US-PATENT-CLASS-248-362
US-PATENT-CLASS-248-363
US-PATENT-CLASS-269-21
US-PATENT-CLASS-33-1G
US-PATENT-CLASS-33-174B
US-PATENT-3,945,879

N76-21742* c 45 ..... NASA-CASE-NPO-13474-1
US-PATENT-APPL-SN-521817
US-PATENT-CLASS-23-254E
US-PATENT-CLASS-250-574
US-PATENT-CLASS-356-37
US-PATENT-3,945,801

N76-21914* c 60 ..... NASA-CASE-NPO-13139-1
US-PATENT-APPL-SN-393524
US-PATENT-CLASS-235-153AE
US-PATENT-CLASS-340-172.5
US-PATENT-3,950,729

N76-22154* c 02 ..... NASA-CASE-LAR-10585-1
US-PATENT-APPL-SN-197183
US-PATENT-CLASS-244-35R
US-PATENT-CLASS-244-40R
US-PATENT-3,952,971

N76-22245* c 17 ..... NASA-CASE-GSC-11868-1
US-PATENT-APPL-SN-565290
US-PATENT-CLASS-178-69.5
US-PATENT-CLASS-328-155
US-PATENT-CLASS-340-147SY
US-PATENT-CLASS-340-207P
US-PATENT-3,953,674

N76-22284* c 19 ..... NASA-CASE-MFS-22905-1
US-PATENT-APPL-SN-518545
US-PATENT-CLASS-188-1B
US-PATENT-CLASS-248-22
US-PATENT-CLASS-248-358R
US-PATENT-3,952,980

N76-22296* c 20 ..... NASA-CASE-MFS-19220-1
US-PATENT-APPL-SN-571821
US-PATENT-CLASS-254-124
US-PATENT-CLASS-254-93R
US-PATENT-CLASS-89-1.801
US-PATENT-3,952,998

N76-22309* c 24 ..... NASA-CASE-LEW-11930-1
US-PATENT-APPL-SN-513611
US-PATENT-CLASS-252-12
US-PATENT-3,953,343

N76-22323* c 25 ..... NASA-CASE-ARC-10760-1
US-PATENT-APPL-SN-526438
US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-344
US-PATENT-CLASS-250-432R
US-PATENT-3,953,734

N76-22376* c 27 ..... NASA-CASE-ARC-10721-1
US-PATENT-APPL-SN-427775
US-PATENT-CLASS-264-60
US-PATENT-CLASS-264-63
US-PATENT-CLASS-264-66
US-PATENT-3,952,083

N76-22377* c 27 ..... NASA-CASE-MSC-14270-1
US-PATENT-APPL-SN-482104
US-PATENT-CLASS-106-54
US-PATENT-CLASS-427-376
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-402
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-428
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-538
US-PATENT-CLASS-428-920
US-PATENT-3,953,646

N76-22509* c 35 ..... NASA-CASE-LAR-11434-1
US-PATENT-APPL-SN-464722
US-PATENT-CLASS-209-127R
US-PATENT-CLASS-317-246
US-PATENT-CLASS-324-61R
US-PATENT-CLASS-324-71CP
US-PATENT-3,953,792

N76-22540* c 37 ..... NASA-CASE-MFS-22636-1
US-PATENT-APPL-SN-536762
US-PATENT-CLASS-114-16.6
US-PATENT-CLASS-244-137P
US-PATENT-CLASS-244-158
US-PATENT-CLASS-244-161
US-PATENT-3,952,976

N76-22541* c 37 ..... NASA-CASE-LEW-11676-1
US-PATENT-APPL-SN-551184
US-PATENT-CLASS-277-4
US-PATENT-CLASS-277-41
US-PATENT-CLASS-277-74
US-PATENT-CLASS-277-93R
US-PATENT-3,953,038

N76-22657* c 44 ..... NASA-CASE-MFS-22743-1
US-PATENT-APPL-SN-518684
US-PATENT-CLASS-126-271
US-PATENT-3,951,129

N76-22914* c 54 ..... NASA-CASE-GSC-12082-1
US-PATENT-APPL-SN-676958

N76-22993* c.74 ..... NASA-CASE-ARC-10932-1
US-PATENT-APPL-SN-681001

N76-23273* c 09 ..... NASA-CASE-MFS-23099-1
US-PATENT-APPL-SN-607969
US-PATENT-CLASS-73-147
US-PATENT-3,952,590

N76-23426* c 27 ..... NASA-CASE-MSC-14270-2
US-PATENT-APPL-SN-482105
US-PATENT-CLASS-106-54
US-PATENT-CLASS-427-376
US-PATENT-CLASS-427-379
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-402
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-428
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-538
US-PATENT-CLASS-428-920
US-PATENT-3,955,034

N76-23570* c 37 ..... NASA-CASE-LEW-11169-1
US-PATENT-APPL-SN-446568
US-PATENT-CLASS-164-132
US-PATENT-3,957,104

N76-23675* c 44 ..... NASA-CASE-MFS-21628-2
US-PATENT-APPL-SN-421702
US-PATENT-APPL-SN-561020
US-PATENT-CLASS-126-270
US-PATENT-CLASS-165-133
US-PATENT-3,957,030

N76-23850* c 60 ..... NASA-CASE-MSC-14082-1
US-PATENT-APPL-SN-315070
US-PATENT-CLASS-340-347DD
US-PATENT-CLASS-340-347P
US-PATENT-3,958,238

N76-24280* c 09 ..... NASA-CASE-ARC-10808-1
US-PATENT-APPL-SN-505881
US-PATENT-CLASS-178-DIG.35
US-PATENT-CLASS-178-7.89
US-PATENT-CLASS-35-12N
US-PATENT-3,956,833

N76-24363* c 24 ..... NASA-CASE-GSC-11786-1
US-PATENT-APPL-SN-401919
US-PATENT-CLASS-106-306
US-PATENT-CLASS-250-372
US-PATENT-CLASS-252-300
US-PATENT-CLASS-350-1
US-PATENT-3,957,675

N76-24405* c 27 ..... NASA-CASE-MSC-14331-1
US-PATENT-APPL-SN-374421
US-PATENT-CLASS-106-15FP
US-PATENT-CLASS-260-DIG.24
US-PATENT-CLASS-260-33.8F
US-PATENT-CLASS-260-45.7
US-PATENT-CLASS-260-92.1
US-PATENT-CLASS-526-1
US-PATENT-CLASS-526-255
US-PATENT-3,956,233

N76-24523* c 35 ..... NASA-CASE-LAR-11500-1
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US-PATENT-CLASS-73-15.6
US-PATENT-3,956,919

N76-24524* c 35 ..... NASA-CASE-NPO-13462-1
US-PATENT-APPL-SN-545282
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-204
US-PATENT-3,956,932

N76-24525* c 35 ..... NASA-CASE-ARC-10816-1
US-PATENT-APPL-SN-552454
US-PATENT-CLASS-128-DIG.4
US-PATENT-CLASS-128-2.05V
US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-2.1Z
US-PATENT-3,957,037

N76-24553* c 36 ..... NASA-CASE-NPO-13531-1
US-PATENT-APPL-SN-531565
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-350-96WG
US-PATENT-3,958,188

N76-24575* c 37 ..... NASA-CASE-LAR-10073-1
US-PATENT-APPL-SN-436317
US-PATENT-CLASS-156-242
US-PATENT-CLASS-156-286
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-267
US-PATENT-CLASS-428-117
US-PATENT-3,956,050

N76-24696* c 44 ..... NASA-CASE-MFS-22744-1
US-PATENT-APPL-SN-518544
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-CLASS-350-293
US-PATENT-CLASS-350-299
US-PATENT-3,958,553

N76-24900* c 54 ..... NASA-CASE-MSC-14733-1
NASA-CASE-MSC-14735-1
US-PATENT-APPL-SN-522971
US-PATENT-CLASS-128-142.2
US-PATENT-CLASS-128-203
US-PATENT-CLASS-137-DIG.9
US-PATENT-CLASS-137-110
US-PATENT-3,957,044

N76-25049* c 76 ..... NASA-CASE-LEW-12094-1
US-PATENT-APPL-SN-508784
US-PATENT-CLASS-148-175
US-PATENT-CLASS-156-610
US-PATENT-CLASS-156-612
US-PATENT-CLASS-156-613
US-PATENT-CLASS-252-62.3
US-PATENT-CLASS-423-345
US-PATENT-CLASS-423-346
US-PATENT-3,956,032

N76-26175* c 04 ..... NASA-CASE-MFS-23551-1
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US-PATENT-CLASS-74-5.34
US-PATENT-3,739,646

N76-27232* c 07 ..... NASA-CASE-LAR-11476-1
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US-PATENT-CLASS-73-557
US-PATENT-3,964,319

N76-27383* c 25 ..... NASA-CASE-LEW-11390-2
US-PATENT-APPL-SN-247434
US-PATENT-APPL-SN-340863
US-PATENT-CLASS-176-11
US-PATENT-CLASS-176-16
US-PATENT-CLASS-423-249
US-PATENT-3,966,547

N76-27472* c 33 ..... NASA-CASE-GSC-11924-1
US-PATENT-APPL-SN-582318
US-PATENT-CLASS-343-755
US-PATENT-CLASS-343-779
US-PATENT-CLASS-343-854
US-PATENT-3,965,475

N76-27473* c 33 ..... NASA-CASE-HQN-10876-1
US-PATENT-APPL-SN-555336
US-PATENT-CLASS-250-336
US-PATENT-CLASS-250-372
US-PATENT-3,965,354

N76-27515* c 34 ..... NASA-CASE-NPO-13391-1
US-PATENT-APPL-SN-446567
US-PATENT-CLASS-165-105
US-PATENT-CLASS-29-182
US-PATENT-CLASS-29-193
US-PATENT-CLASS-55-523
US-PATENT-CLASS-55-526
US-PATENT-CLASS-75-225
US-PATENT-3,964,902

N76-27517* c 34 ..... NASA-CASE-ARC-10755-2
US-PATENT-APPL-SN-424013
US-PATENT-APPL-SN-545284
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-194R
US-PATENT-3,964,306

N76-27567* c 37 ..... NASA-CASE-LAR-11709-1
US-PATENT-APPL-SN-548468
US-PATENT-CLASS-339-17M
US-PATENT-CLASS-339-18C
US-PATENT-3,964,813

N76-27568* c 37 ..... NASA-CASE-LAR-11726-1
US-PATENT-APPL-SN-538047
US-PATENT-CLASS-219-118
US-PATENT-CLASS-219-92
US-PATENT-3,967,091

N76-27664* c 44 ..... NASA-CASE-MFS-23059-1
US-PATENT-APPL-SN-537024
US-PATENT-CLASS-136-86A
US-PATENT-3,964,928

N76-28563* c 38 ..... NASA-CASE-NPO-12142-1
US-PATENT-APPL-SN-637249
US-PATENT-CLASS-73-88.5
US-PATENT-3,545,262

N76-28635* c 44 ..... NASA-CASE-GSC-12022-1
NASA-CASE-GSC-12023-1
US-PATENT-APPL-SN-576488
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US-PATENT-CLASS-148-174
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US-PATENT-CLASS-156-612
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US-PATENT-CLASS-156-614
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-427-113
US-PATENT-CLASS-427-248
US-PATENT-CLASS-427-249
US-PATENT-CLASS-427-250
US-PATENT-CLASS-427-86
US-PATENT-3,961,997

N76-29217* c 05 ..... NASA-CASE-ARC-10470-3
US-PATENT-APPL-SN-206279
US-PATENT-APPL-SN-321180
US-PATENT-APPL-SN-496779
US-PATENT-CLASS-244-46
US-PATENT-3,971,535

N76-29347* c 17 ..... NASA-CASE-ARC-10849-1
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US-PATENT-CLASS-340-189M
US-PATENT-CLASS-340-206
US-PATENT-CLASS-73-493
US-PATENT-CLASS-73-517R
US-PATENT-3,972,038

N76-29379* c 25 ..... NASA-CASE-LEW-11390-3
US-PATENT-APPL-SN-247434
US-PATENT-APPL-SN-380046
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US-PATENT-CLASS-176-14
US-PATENT-CLASS-176-16
US-PATENT-CLASS-250-400
US-PATENT-CLASS-250-429
US-PATENT-CLASS-250-492R
US-PATENT-3,971,697

N76-29551* c 35 ..... NASA-CASE-LAR-10907-1
US-PATENT-APPL-SN-559845
US-PATENT-CLASS-250-340
US-PATENT-CLASS-250-353
US-PATENT-3,971,940

N76-29552* c 35 ..... NASA-CASE-MSC-12617-1
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US-PATENT-CLASS-235-61NV
US-PATENT-CLASS-235-78M
US-PATENT-CLASS-235-88M
US-PATENT-3,971,915

N76-29575* c 36 ..... NASA-CASE-NPO-13346-1
US-PATENT-APPL-SN-533556
US-PATENT-CLASS-330-4.3
US-PATENT-CLASS-331-94.5C
US-PATENT-3,972,008

N76-29588* c 37 ..... NASA-CASE-LEW-11949-1
US-PATENT-APPL-SN-590182
US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-163
US-PATENT-CLASS-308-170
US-PATENT-3,971,602

N76-29590* c 37 ..... NASA-CASE-NPO-13613-1
US-PATENT-APPL-SN-574208
US-PATENT-CLASS-62-6
US-PATENT-3,971,230

N76-29699* c 44 ..... NASA-CASE-HQN-10862-1
US-PATENT-APPL-SN-604374
US-PATENT-CLASS-136-143
US-PATENT-CLASS-136-30
US-PATENT-3,972,727

N76-29700* c 44 ..... NASA-CASE-NPO-13342-2
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US-PATENT-APPL-SN-548559
US-PATENT-CLASS-123-1A
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-215
US-PATENT-CLASS-48-95
US-PATENT-3,955,941

N76-29701* c 44 ..... NASA-CASE-NPO-13567-1
US-PATENT-APPL-SN-566493
US-PATENT-CLASS-417-141
US-PATENT-CLASS-417-207
US-PATENT-CLASS-417-209
US-PATENT-CLASS-417-379
US-PATENT-CLASS-60-517
US-PATENT-CLASS-62-6
US-PATENT-3,972,651

N76-29704* c 44 ..... NASA-CASE-NPO-13464-2
US-PATENT-APPL-SN-428444
US-PATENT-APPL-SN-553687
US-PATENT-CLASS-252-373
US-PATENT-CLASS-42-215
US-PATENT-CLASS-423-650
US-PATENT-CLASS-431-163
US-PATENT-CLASS-431-210
US-PATENT-CLASS-431-4
US-PATENT-CLASS-48-197R
US-PATENT-3,971,847

N76-29891* c 51 ..... NASA-CASE-GSC-11917-2
US-PATENT-APPL-SN-475337
US-PATENT-APPL-SN-555641
US-PATENT-CLASS-195-103.5R
US-PATENT-3,971,703

N76-29894* c 52 ..... NASA-CASE-ARC-10583-1
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US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2H
US-PATENT-CLASS-128-2P
US-PATENT-3,971,362

*N76-29895** *c 52* *NASA-CASE-NPO-13644-1*
US-PATENT-APPL-SN-574218
US-PATENT-CLASS-128-2.05R
US-PATENT-CLASS-128-2S

US-PATENT-CLASS-338-6
US-PATENT-3,971,363
N76-29896* c 52 ..... NASA-CASE-NPO-13643-1
US-PATENT-APPL-SN-578241
US-PATENT-CLASS-128-2.05E
US-PATENT-CLASS-128-2.06E
US-PATENT-CLASS-128-2S
US-PATENT-CLASS-128-418
US-PATENT-CLASS-128-419P
US-PATENT-CLASS-73-398AR
US-PATENT-3,971,364
N76-30053* c 74 ..... NASA-CASE-GSC-11782-1
US-PATENT-APPL-SN-463925
US-PATENT-CLASS-250-199
US-PATENT-3,971,930
N76-30131* c 91 ..... NASA-CASE-MSC-12423-1
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US-PATENT-CLASS-73-425.2
US-PATENT-CLASS-73-432R
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N76-30793* c 52 ..... US-PATENT-APPL-SN-452768
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US-PATENT-CLASS-351-30
US-PATENT-CLASS-351-36
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N76-31365* c 31 ..... NASA-CASE-ARC-10445-1
US-PATENT-APPL-SN-491418
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US-PATENT-CLASS-313-306
US-PATENT-CLASS-313-309
US-PATENT-CLASS-313-338
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N76-31372* c 32 ..... NASA-CASE-NPO-13465-1
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US-PATENT-CLASS-179-1SA
US-PATENT-3,978,287
N76-31409* c 33 ..... NASA-CASE-NPO-12134-1
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US-PATENT-CLASS-357-63
US-PATENT-3,978,360
N76-31489* c 35 ..... NASA-CASE-GSC-11893-1
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US-PATENT-CLASS-73-9
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N76-31490* c 35 ..... NASA-CASE-NPO-13604-1
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US-PATENT-CLASS-356-114
US-PATENT-CLASS-356-209
US-PATENT-CLASS-356-244
US-PATENT-3,977,787
N76-31512* c 36 ..... NASA-CASE-NPO-13490-1
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US-PATENT-CLASS-331-94
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N76-31524* c 37 ..... NASA-CASE-NPO-13535-1
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US-PATENT-CLASS-264-129
US-PATENT-CLASS-264-161
US-PATENT-CLASS-264-219
US-PATENT-CLASS-264-304
US-PATENT-CLASS-264-305
US-PATENT-CLASS-264-308
US-PATENT-CLASS-264-310
US-PATENT-CLASS-264-318
US-PATENT-CLASS-264-334
US-PATENT-CLASS-427-230
US-PATENT-3,978,187
N76-31562* c 39 ..... NASA-CASE-MSC-19372-1
US-PATENT-APPL-SN-517995
US-PATENT-CLASS-182-178
US-PATENT-CLASS-29-467
US-PATENT-CLASS-29-526
US-PATENT-CLASS-52-236
US-PATENT-CLASS-52-637
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-651
US-PATENT-CLASS-52-726
US-PATENT-CLASS-52-745
US-PATENT-CLASS-52-749
US-PATENT-3,977,147
N76-31666* c 44 ..... NASA-CASE-NPO-13087-2
US-PATENT-APPL-SN-296622
US-PATENT-APPL-SN-462341
US-PATENT-CLASS-136-206
US-PATENT-CLASS-136-89
US-PATENT-3,966,499
N76-31667* c 44 ..... NASA-CASE-MFS-23167-1
US-PATENT-APPL-SN-602618
US-PATENT-CLASS-165-10
US-PATENT-CLASS-60-659
US-PATENT-3,977,197
N76-31714* c 45 ..... NASA-CASE-LAR-11405-1
US-PATENT-APPL-SN-537480
US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-3,977,831
N76-31946* c 62 ..... NASA-CASE-GSC-12115-1
US-PATENT-APPL-SN-262596
US-PATENT-CLASS-340-347SY
US-PATENT-3,976,997
N76-31998* c 74 ..... NASA-CASE-MSC-12640-1
US-PATENT-APPL-SN-591568
US-PATENT-CLASS-350-162SF
US-PATENT-3,977,771
N76-32140* c 03 ..... NASA-CASE-MFS-16609-3
US-PATENT-APPL-SN-307714
US-PATENT-APPL-SN-511894
US-PATENT-APPL-SN-82279
US-PATENT-CLASS-325-114
US-PATENT-CLASS-325-115
US-PATENT-CLASS-325-186
US-PATENT-CLASS-343-705
US-PATENT-3,978,410
N76-32315* c 27 ..... NASA-CASE-ARC-10592-2
US-PATENT-APPL-SN-414043
US-PATENT-CLASS-260-240G
US-PATENT-CLASS-260-566B
US-PATENT-3,965,096
N76-32457* c 33 ..... NASA-CASE-NPO-13553-1
US-PATENT-APPL-SN-616333
US-PATENT-CLASS-343-882
US-PATENT-CLASS-343-915
US-PATENT-3,978,490
N76-33835*# c 52 ..... NASA-CASE-ARC-10994-1
US-PATENT-APPL-SN-728369
N77-10001* c 02 ..... NASA-CASE-LAR-11645-1
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US-PATENT-CLASS-244-130
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N77-10071* c 09 ..... NASA-CASE-NPO-13528-1
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US-PATENT-CLASS-73-147
US-PATENT-3,983,749
N77-10112* c 15 ..... NASA-CASE-MFS-20855-1
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US-PATENT-CLASS-244-1SD
US-PATENT-3,744,739
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US-PATENT-CLASS-244-169
US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-3,984,072
N77-10148* c 20 ..... NASA-CASE-LEW-12082-1
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US-PATENT-CLASS-313-240
US-PATENT-CLASS-313-361
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-60-202
US-PATENT-3,983,695
N77-10213* c 28 ..... NASA-CASE-LAR-11995-1
US-PATENT-APPL-SN-238826
US-PATENT-CLASS-102-99
US-PATENT-CLASS-264-3R
US-PATENT-CLASS-86-1R
US-PATENT-3,983,780
N77-10229* c 31 ..... NASA-CASE-NPO-13459-1
US-PATENT-APPL-SN-598967
US-PATENT-CLASS-62-217
US-PATENT-CLASS-62;514JT
US-PATENT-3,983,714
N77-10392* c 32 ..... NASA-CASE-LAR-11827-1
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US-PATENT-APPL-SN-561764
US-PATENT-CLASS-178-88
US-PATENT-CLASS-235-150.1
US-PATENT-CLASS-235-156
US-PATENT-CLASS-325-323
US-PATENT-CLASS-325-349
US-PATENT-CLASS-325-476
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US-PATENT-CLASS-321-2
US-PATENT-CLASS-323-DIG.1
US-PATENT-CLASS-323-17
US-PATENT-CLASS-323-22T
US-PATENT-CLASS-323-23
US-PATENT-3,984,799
N77-10429* c 33 ..... NASA-CASE-GSC-11963-1
US-PATENT-APPL-SN-595197
US-PATENT-CLASS-244-1A
US-PATENT-CLASS-244-42CG
US-PATENT-CLASS-317-2D
US-PATENT-CLASS-324-72
US-PATENT-3,984,730
N77-10463* c 34 ..... NASA-CASE-MFS-22991-1
US-PATENT-APPL-SN-521006
US-PATENT-CLASS-165-164
US-PATENT-CLASS-165-170
US-PATENT-3,983,933
N77-10492* c 35 ..... NASA-CASE-NPO-13479-1
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US-PATENT-CLASS-250-290
US-PATENT-CLASS-250-291
US-PATENT-3,984,681
N77-10493* c 35 ..... NASA-CASE-MFS-23178-1
US-PATENT-APPL-SN-637247
US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-106R
US-PATENT-3,984,686
N77-10584* c 43 ..... NASA-CASE-MSC-14472-1
US-PATENT-APPL-SN-502138
US-PATENT-CLASS-235-181
US-PATENT-CLASS-340-146.3P
US-PATENT-CLASS-340-146.3Q
US-PATENT-3,984,671
N77-10635* c 44 ..... NASA-CASE-MFS-22458-1
US-PATENT-APPL-SN-571458
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US-PATENT-CLASS-29-572
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NASA-CASE-NPO-13561-1
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US-PATENT-CLASS-431-116
US-PATENT-CLASS-431-162
US-PATENT-CLASS-431-170
US-PATENT-CLASS-431-41
US-PATENT-CLASS-48-116
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US-PATENT-CLASS-48-197R
US-PATENT-CLASS-48-212
US-PATENT-CLASS-48-61
US-PATENT-3,982,910
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US-PATENT-CLASS-250-338
US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-347
US-PATENT-CLASS-356-106R
US-PATENT-3,984,685
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US-PATENT-CLASS-73-343R
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US-PATENT-CLASS-356-239
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NASA-CASE-NPO-13545-1
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US-PATENT-CLASS-340-146.1AQ
US-PATENT-CLASS-340-146.1AV
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NASA-CASE-NPO-13447-1
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US-PATENT-CLASS-340-172.5
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US-PATENT-CLASS-29-182.5

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US-PATENT-CLASS-307-295
US-PATENT-CLASS-328-133
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US-PATENT-CLASS-239-171
US-PATENT-CLASS-252-359A
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US-PATENT-CLASS-416-160
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US-PATENT-CLASS-416-165
US-PATENT-CLASS-416-167
US-PATENT-CLASS-60-226R
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US-PATENT-CLASS-321-13
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US-PATENT-CLASS-332-30V
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US-PATENT-CLASS-330-59
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US-PATENT-CLASS-356-97
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US-PATENT-CLASS-242-57
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US-PATENT-CLASS-128-400
US-PATENT-CLASS-128-402
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US-PATENT-CLASS-250-444
US-PATENT-CLASS-250-498
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US-PATENT-CLASS-86-20R
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US-PATENT-CLASS-23-230R
US-PATENT-CLASS-23-231
US-PATENT-CLASS-23-232C
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-23-254R
US-PATENT-CLASS-55-197
US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-74
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US-PATENT-CLASS-73-61.1C
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US-PATENT-CLASS-331-177V
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US-PATENT-CLASS-332-30V
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US-PATENT-CLASS-307-230
US-PATENT-CLASS-328-161
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US-PATENT-APPL-SN-561956
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US-PATENT-CLASS-360-31
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US-PATENT-CLASS-235-92CT
US-PATENT-CLASS-235-92DN
US-PATENT-CLASS-235-92R
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US-PATENT-CLASS-244-53B
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US-PATENT-CLASS-333-75
US-PATENT-CLASS-333-76
US-PATENT-CLASS-333-82B
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US-PATENT-APPL-SN-578240
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US-PATENT-CLASS-427-322
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US-PATENT-CLASS-428-474
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US-PATENT-CLASS-313-311
US-PATENT-CLASS-346R
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US-PATENT-APPL-SN-623156
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US-PATENT-CLASS-244-63
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US-PATENT-CLASS-416-230
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US-PATENT-CLASS-204-40
US-PATENT-CLASS-204-9
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US-PATENT-CLASS-62-121
US-PATENT-CLASS-62-269
US-PATENT-CLASS-62-315
US-PATENT-4,007,601
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US-PATENT-3,988,933
N77-19416* c 36 ..... NASA-CASE-XNP-04167-3
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US-PATENT-APPL-SN-479357
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US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5PE
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US-PATENT-CLASS-197-190
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NASA-CASE-GSC-11974-1
NASA-CASE-GSC-11975-1

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US-PATENT-CLASS-337-334
US-PATENT-CLASS-340-224
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US-PATENT-CLASS-75-170
US-PATENT-4,010,455

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US-PATENT-CLASS-136-89
US-PATENT-3,989,541

N77-19760* c 60 ..... NASA-CASE-ARC-10899-1
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US-PATENT-CLASS-179-15BS
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US-PATENT-3,990,049

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US-PATENT-CLASS-313-231.3
US-PATENT-CLASS-313-360
US-PATENT-CLASS-315-111.3
US-PATENT-CLASS-315-111.6
US-PATENT-CLASS-60-202
US-PATENT-4,011,719

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US-PATENT-CLASS-148-162
US-PATENT-CLASS-148-2
US-PATENT-CLASS-148-20.3
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,012,237

N77-20289* c 32 ..... NASA-CASE-NPO-13753-1
US-PATENT-APPL-SN-658449
US-PATENT-CLASS-325-4
US-PATENT-CLASS-343-100ST
US-PATENT-CLASS-343-6.8R
US-PATENT-CLASS-343-6.5R
US-PATENT-4,012,696

N77-20399* c 35 ..... NASA-CASE-ARC-10716-1
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US-PATENT-CLASS-235-150.2
US-PATENT-CLASS-235-150.25
US-PATENT-CLASS-244-165
US-PATENT-CLASS-244-171
US-PATENT-CLASS-244-3.21
US-PATENT-4,012,018

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US-PATENT-APPL-SN-610802
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US-PATENT-CLASS-73-204
US-PATENT-4,011,756

N77-20401* c 35 ..... NASA-CASE-MFS-23267-1
US-PATENT-APPL-SN-653422
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US-PATENT-CLASS-126-271
US-PATENT-CLASS-250-203R
US-PATENT-4,011,854

N77-20882* c 74 ..... NASA-CASE-LAR-11782-1
US-PATENT-APPL-SN-608482
US-PATENT-CLASS-350-145
US-PATENT-CLASS-350-174
US-PATENT-4,012,123

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US-PATENT-CLASS-343-18B
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5MM
US-PATENT-4,019,179

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NASA-CASE-NPO-10781-1
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US-PATENT-CLASS-307-238
US-PATENT-CLASS-307-280
US-PATENT-CLASS-329-119
US-PATENT-CLASS-329-205
US-PATENT-CLASS-332-16
US-PATENT-CLASS-332-30
US-PATENT-CLASS-332-52
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US-PATENT-APPL-SN-385059
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US-PATENT-CLASS-313-184
US-PATENT-CLASS-313-224
US-PATENT-CLASS-313-32
US-PATENT-CLASS-315-344
US-PATENT-3,881,132

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US-PATENT-CLASS-313-175
US-PATENT-CLASS-313-180
US-PATENT-CLASS-313-184
US-PATENT-CLASS-315-108
US-PATENT-CLASS-315-110
US-PATENT-3,621,330

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US-PATENT-3,697,705

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US-PATENT-APPL-SN-757017
US-PATENT-CLASS-338-25
US-PATENT-3,555,483

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US-PATENT-CLASS-188-291
US-PATENT-CLASS-254-158
US-PATENT-4,018,423

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US-PATENT-APPL-SN-95189
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US-PATENT-CLASS-240-41R
US-PATENT-CLASS-240-46.13
US-PATENT-CLASS-356-236
US-PATENT-3,711,701

N77-22386* c 33 ..... NASA-CASE-NPO-10870-1
NASA-CASE-NPO-11191-1
NASA-CASE-NPO-11403-1
US-PATENT-APPL-SN-108810
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US-PATENT-CLASS-313-182
US-PATENT-CLASS-313-60
US-PATENT-3,736,453

N77-22449* c 35 ..... NASA-CASE-LAR-11825-1
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US-PATENT-CLASS-73-88R
US-PATENT-4,018,085

N77-22450* c 35 ..... NASA-CASE-MFS-23281-1
US-PATENT-APPL-SN-657995
US-PATENT-CLASS-73-15.6
US-PATENT-CLASS-73-95
US-PATENT-4,018,080

N77-22479* c 37 ..... NASA-CASE-NPO-10316-1
US-PATENT-APPL-SN-703107
US-PATENT-CLASS-60-53
US-PATENT-3,478,514

N77-22480* c 37 ..... NASA-CASE-NPO-13058-1
NASA-CASE-NPO-13096-1
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US-PATENT-CLASS-214-16.1CB
US-PATENT-3,896,955

N77-22482* c 37 ..... NASA-CASE-MSC-19536-1
US-PATENT-APPL-SN-658450
US-PATENT-CLASS-74-96
US-PATENT-4,018,092

N77-22606* c 44 ..... NASA-CASE-LEW-12364-1
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US-PATENT-CLASS-253-317
US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-190
US-PATENT-4,018,971

N77-22607* c 44 ..... NASA-CASE-LAR-11361-1
US-PATENT-APPL-SN-669928
US-PATENT-CLASS-23-277R
US-PATENT-CLASS-23-281
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-55-158
US-PATENT-4,019,868

N77-22794* c 51 ..... NASA-CASE-GSC-12039-1
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US-PATENT-CLASS-195-103.5R
US-PATENT-4,014,745

N77-22950* c 74 ..... NASA-CASE-ARC-10976-1
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US-PATENT-CLASS-356-171
US-PATENT-4,018,533

N77-22951* c 74 ..... NASA-CASE-NPO-13722-1
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US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-172
US-PATENT-4,018,532

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US-PATENT-APPL-SN-655149
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US-PATENT-CLASS-123-41.33
US-PATENT-CLASS-137-101
US-PATENT-CLASS-415-180
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
US-PATENT-4,020,632

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US-PATENT-CLASS-29-DIG.35
US-PATENT-CLASS-29-447
US-PATENT-CLASS-403-273
US-PATENT-CLASS-53-9
US-PATENT-4,017,959

N77-23483* c 37 ..... NASA-CASE-MFS-23088-1
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US-PATENT-CLASS-213-81
US-PATENT-CLASS-214-1CM
US-PATENT-CLASS-244-161
US-PATENT-4,018,409

N77-24328* c 32 ..... NASA-CASE-ARC-10984-1
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US-PATENT-CLASS-358-133
US-PATENT-CLASS-358-138
US-PATENT-4,025,950

N77-24331* c 32 ..... NASA-CASE-MSC-14840-1
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US-PATENT-CLASS-178-88
US-PATENT-CLASS-325-346
US-PATENT-CLASS-329-104
US-PATENT-CLASS-329-122
US-PATENT-4,027,265

N77-24375* c 33 ..... NASA-CASE-MSC-12709-1
US-PATENT-APPL-SN-630583
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US-PATENT-CLASS-328-38
US-PATENT-CLASS-328-39
US-PATENT-CLASS-328-4-8
US-PATENT-CLASS-328-63
US-PATENT-4,025,866

N77-24423* c 34 ..... NASA-CASE-LAR-12045-1
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US-PATENT-CLASS-259/4R
US-PATENT-CLASS-261-DIG.75
US-PATENT-CLASS-261-123
US-PATENT-4,026,527

N77-24454* c 35 ..... NASA-CASE-ARC-10900-1
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US-PATENT-CLASS-338-28
US-PATENT-4,025,891

N77-24455* c 35 ..... NASA-CASE-GSC-12077-1
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US-PATENT-CLASS-65-59A
US-PATENT-CLASS-6554
US-PATENT-CLASS-6564
US-PATENT-4,025,327

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US-PATENT-CLASS-331-94.5S
US-PATENT-4,025,875

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US-PATENT-CLASS-350-100
US-PATENT-CLASS-350-102
US-PATENT-CLASS-356-28
US-PATENT-4,026,655

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US-PATENT-CLASS-331-94.5D
US-PATENT-CLASS-331-94.5P
US-PATENT-4,027,273

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US-PATENT-APPL-SN-314656
US-PATENT-APPL-SN-623238
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US-PATENT-4,018,649

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US-PATENT-CLASS-3-1
US-PATENT-CLASS-339,12R
US-PATENT-4,025,964

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US-PATENT-CLASS-29-622
US-PATENT-CLASS-29-628
US-PATENT-CLASS-29-630E
US-PATENT-4,023,266

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US-PATENT-CLASS-318-227
US-PATENT-CLASS-318-254

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US-PATENT-CLASS-416-221
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US-PATENT-CLASS-75-65R
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US-PATENT-CLASS-331-94.5T
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US-PATENT-CLASS-118-9
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US-PATENT-CLASS-23-292
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US-PATENT-CLASS-308-73
US-PATENT-CLASS-308-9
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US-PATENT-CLASS-128-214F
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US-PATENT-CLASS-222-95
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US-PATENT-CLASS-128-2.1E
US-PATENT-CLASS-128-410
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US-PATENT-CLASS-350-299
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US-PATENT-CLASS-536-536-85
US-PATENT-CLASS-536-56
US-PATENT-CLASS-536-58
US-PATENT-CLASS-536-84
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US-PATENT-CLASS-106-299
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US-PATENT-CLASS-325-42
US-PATENT-CLASS-325-473
US-PATENT-CLASS-325-65
US-PATENT-4,041,391
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US-PATENT-CLASS-179-1SP
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US-PATENT-CLASS-137-209
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US-PATENT-CLASS-62-55
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US-PATENT-CLASS-324-174
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US-PATENT-CLASS-340-347SY
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US-PATENT-CLASS-3-21
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US-PATENT-CLASS-210-40
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US-PATENT-CLASS-260-2.5AM
US-PATENT-CLASS-260-2.5AY
US-PATENT-CLASS-260-77.5AP
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US-PATENT-CLASS-340-347SH
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US-PATENT-CLASS-123-59E
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US-PATENT-CLASS-52-51
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US-PATENT-CLASS-416-241A
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US-PATENT-CLASS-204-158R
US-PATENT-CLASS-204-162R
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US-PATENT-CLASS-343-100CL
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US-PATENT-CLASS-343-5DP
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US-PATENT-CLASS-136-240
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US-PATENT-CLASS-52-2
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US-PATENT-CLASS-214-1CM
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US-PATENT-CLASS-55-269
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US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-619
US-PATENT-CLASS-156-620
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US-PATENT-CLASS-210-71
US-PATENT-CLASS-252-472
US-PATENT-CLASS-427-229
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US-PATENT-CLASS-60-574
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US-PATENT-CLASS-137-104
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US-PATENT-CLASS-60-39.66
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US-PATENT-CLASS-350-299
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US-PATENT-CLASS-3-29
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US-PATENT-CLASS-356-169
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US-PATENT-CLASS-65-DIG.7
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US-PATENT-CLASS-65-2
US-PATENT-CLASS-65-32
US-PATENT-CLASS-65-4B
US-PATENT-CLASS-65-87
US-PATENT-CLASS-73-505
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US-PATENT-CLASS-55-3
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US-PATENT-CLASS-338-32S
US-PATENT-CLASS-357-4
US-PATENT-CLASS-357-5
US-PATENT-CLASS-357-73
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US-PATENT-CLASS-250-343
US-PATENT-CLASS-250-351
US-PATENT-4,055,764
N78-13436* c 37 ..... NASA-CASE-LEW-12083-1
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US-PATENT-CLASS-313-61S
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US-PATENT-CLASS-427-126
US-PATENT-CLASS-427-248E
US-PATENT-CLASS-427-250
US-PATENT-CLASS-427-255
US-PATENT-4,055,686
N78-13526* c 44 ..... NASA-CASE-NPO-13482-1
US-PATENT-APPL-SN-495021
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US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
US-PATENT-4,053,918
N78-13874* c 74 ..... NASA-CASE-GSC-12088-1
US-PATENT-APPL-SN-648700
US-PATENT-CLASS-356-103
US-PATENT-CLASS-356-104
US-PATENT-4,053,229
N78-14096* c 24 ..... NASA-CASE-ARC-11042-1
US-PATENT-APPL-SN-734902
US-PATENT-CLASS-252-8.1
US-PATENT-CLASS-60-836
US-PATENT-4,061,579
N78-14104* c 25 ..... NASA-CASE-ARC-10991-1
US-PATENT-APPL-SN-744574
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US-PATENT-CLASS-204-299R
US-PATENT-4,061,561
N78-14164* c 27 ..... NASA-CASE-NPO-13867-1
US-PATENT-APPL-SN-692284
US-PATENT-CLASS-260-DIG.15
US-PATENT-CLASS-427-164
US-PATENT-CLASS-428-411
US-PATENT-CLASS-428-522
US-PATENT-CLASS-428-922
US-PATENT-CLASS-96-87A
US-PATENT-4,061,834
N78-14364* c 35 ..... NASA-CASE-ARC-11046-1
US-PATENT-APPL-SN-712419
US-PATENT-CLASS-340-27SS
US-PATENT-CLASS-73-180
US-PATENT-4,061,029
N78-14380* c 36 ..... NASA-CASE-MFS-19259-1
US-PATENT-APPL-SN-732630

US-PATENT-CLASS-250-571
US-PATENT-CLASS-356-159
US-PATENT-CLASS-356-160
US-PATENT-CLASS-356-199
US-PATENT-4,061,427

N78-14452* c 43 ..... NASA-CASE-LEW-12217-1
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US-PATENT-CLASS-166-248
US-PATENT-CLASS-166-259
US-PATENT-4,061,190

N78-14625* c 44 ..... NASA-CASE-LEW-12039-1
US-PATENT-APPL-SN-687822
US-PATENT-CLASS-320-15
US-PATENT-CLASS-320-18
US-PATENT-CLASS-320-40
US-PATENT-CLASS-320-6
US-PATENT-4,061,955

N78-14773* c 52 ..... NASA-CASE-LEW-12668-1
US-PATENT-APPL-SN-677353
US-PATENT-CLASS-128-305
US-PATENT-4,061,146

N78-14784* c 54 ..... NASA-CASE-MSC-14632-1
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US-PATENT-CLASS-204-180P
US-PATENT-CLASS-204-301
US-PATENT-CLASS-210-192
US-PATENT-CLASS-210-96M
US-PATENT-CLASS-23-253A
US-PATENT-4,061,570

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US-PATENT-APPL-SN-740156
US-PATENT-CLASS-330-52
US-PATENT-CLASS-73-646
US-PATENT-4,061,041

N78-14889* c 74 ..... NASA-CASE-KSC-11047-1
US-PATENT-APPL-SN-715485
US-PATENT-CLASS-179-91R
US-PATENT-CLASS-250-199
US-PATENT-CLASS-358-142
US-PATENT-4,061,577

N78-15180* c 24 ..... NASA-CASE-ARC-10913-1
US-PATENT-APPL-SN-698646
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US-PATENT-CLASS-260-2.5R
US-PATENT-CLASS-428-117
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-71
US-PATENT-CLASS-428-73
US-PATENT-CLASS-428-920
US-PATENT-4,061,812

N78-15210* c 25 ..... NASA-CASE-LAR-12046-1
US-PATENT-APPL-SN-755310
US-PATENT-CLASS-23-230PC
US-PATENT-CLASS-23-232E
US-PATENT-CLASS-23-232R
US-PATENT-CLASS-73-23
US-PATENT-4,062,650

N78-15276* c 27 ..... NASA-CASE-LEW-12053-1
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US-PATENT-CLASS-260-2R
US-PATENT-CLASS-526-193
US-PATENT-CLASS-526-225
US-PATENT-CLASS-544-193
US-PATENT-4,061,856

N78-15323* c 32 ..... NASA-CASE-NPO-13836-1
US-PATENT-APPL-SN-699002
US-PATENT-CLASS-178-69.1
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-63
US-PATENT-CLASS-343-179
US-PATENT-4,061,974

N78-15461* c 35 ..... NASA-CASE-NPO-13808-1
US-PATENT-APPL-SN-675328
US-PATENT-CLASS-250-322
US-PATENT-CLASS-250-416TV
US-PATENT-4,063,092

N78-15512* c 39 ..... NASA-CASE-LAR-12016-1
US-PATENT-APPL-SN-754066
US-PATENT-CLASS-73-579
US-PATENT-CLASS-73-630
US-PATENT-CLASS-73-88F
US-PATENT-4,062,227

N78-15560* c 44 ..... NASA-CASE-LAR-12009-1
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US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-400
US-PATENT-CLASS-237-1A
US-PATENT-4,062,347

N78-15879* c 74 ..... NASA-CASE-LAR-10385-3
US-PATENT-APPL-SN-370999
US-PATENT-APPL-SN-38816
US-PATENT-CLASS-350-1
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US-PATENT-CLASS-428-336
US-PATENT-CLASS-428-426
US-PATENT-CLASS-428-428
US-PATENT-4,062,996

N78-15880* c 74 ..... NASA-CASE-MFS-22409-2
US-PATENT-APPL-SN-445398
US-PATENT-APPL-SN-636193
US-PATENT-CLASS-250-272
US-PATENT-CLASS-250-320
US-PATENT-4,063,088

N78-16369* c 37 ..... NASA-CASE-NPO-13619-1
US-PATENT-APPL-SN-572990
US-PATENT-CLASS-185-38
US-PATENT-CLASS-74-81
US-PATENT-CLASS-74-83
US-PATENT-4,062,245

N78-16387* c 39 ..... NASA-CASE-LAR-11490-1
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US-PATENT-CLASS-358-106
US-PATENT-4,063,282

N78-17031* c 04 ..... NASA-CASE-XNP-01458
US-PATENT-APPL-SN-160093
US-PATENT-CLASS-235-70
US-PATENT-3,229,905

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US-PATENT-CLASS-60-271
US-PATENT-4,068,469

N78-17056* c 07 ..... NASA-CASE-LEW-12390-1
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US-PATENT-CLASS-60-226R
US-PATENT-CLASS-74-385
US-PATENT-CLASS-74-417
US-PATENT-4,068,470

N78-17140* c 17 ..... NASA-CASE-HQN-10880-1
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US-PATENT-CLASS-325-118
US-PATENT-CLASS-325-66
US-PATENT-CLASS-343-112R
US-PATENT-CLASS-343-225
US-PATENT-CLASS-362-269
US-PATENT-4,067,015

N78-17149* c 24 ..... NASA-CASE-LAR-11898-2
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US-PATENT-APPL-SN-799024
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US-PATENT-CLASS-156-289
US-PATENT-CLASS-428-116
US-PATENT-CLASS-428-902
US-PATENT-4,063,981

N78-17150* c 24 ..... NASA-CASE-LAR-12019-1
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US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-286
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-300
US-PATENT-CLASS-156-306
US-PATENT-CLASS-156-311
US-PATENT-CLASS-264-157
US-PATENT-CLASS-264-90
US-PATENT-CLASS-428-294
US-PATENT-CLASS-428-302
US-PATENT-4,065,340

N78-17205* c 27 ..... NASA-CASE-LAR-12181-1
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US-PATENT-APPL-SN-734901
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US-PATENT-CLASS-156-331
US-PATENT-CLASS-260-30.4N
US-PATENT-CLASS-260-32.2R
US-PATENT-CLASS-260-32.6NT
US-PATENT-CLASS-260-33.4R
US-PATENT-4,065,345

N78-17206* c 27 ..... NASA-CASE-LAR-11902-1
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US-PATENT-CLASS-106-43
US-PATENT-CLASS-60-200A
US-PATENT-CLASS-75-229
US-PATENT-CLASS-75-239
US-PATENT-CLASS-75-241
US-PATENT-4,067,742

N78-17213* c 27 ..... NASA-CASE-MSC-14331-2
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US-PATENT-CLASS-260-75NK
US-PATENT-CLASS-260-75NT
US-PATENT-CLASS-260-77.5AM
US-PATENT-CLASS-260-77.5AN
US-PATENT-CLASS-260-77.5AP
US-PATENT-CLASS-260-77.5AT
US-PATENT-CLASS-260-77.55P
US-PATENT-4,069,212

N78-17214* c 27 ..... NASA-CASE-NPO-10557
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US-PATENT-CLASS-260-67
US-PATENT-3,538,053

N78-17215* c 27 ..... NASA-CASE-NPO-13764-1
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US-PATENT-CLASS-128-92G
US-PATENT-CLASS-260-42.17
US-PATENT-CLASS-3-1.9
US-PATENT-4,064,566

N78-17237* c 31 ..... NASA-CASE-LEW-11981-1
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US-PATENT-CLASS-62-376
US-PATENT-CLASS-62-514R
US-PATENT-4,068,495

N78-17238* c 31 ..... NASA-CASE-NPO-11978
US-PATENT-APPL-SN-264268
US-PATENT-CLASS-313-175
US-PATENT-CLASS-313-176
US-PATENT-CLASS-313-180
US-PATENT-CLASS-313-184
US-PATENT-CLASS-313-224
US-PATENT-3,769,544

N78-17293* c 33 ..... NASA-CASE-XLE-06094
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US-PATENT-CLASS-315-22
US-PATENT-3,423,627

N78-17294* c 33 ..... NASA-CASE-MSC-11235
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US-PATENT-CLASS-307-297
US-PATENT-CLASS-323-4
US-PATENT-CLASS-328-172
US-PATENT-3,573,504

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US-PATENT-CLASS-323-18
US-PATENT-3,475,675

N78-17296* c 33 ..... NASA-CASE-GSC-10135
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US-PATENT-CLASS-307-69
US-PATENT-CLASS-320-53
US-PATENT-CLASS-323-19
US-PATENT-3,600,599

N78-17335* c 34 ..... NASA-CASE-LEW-12508-1
US-PATENT-APPL-SN-746580
US-PATENT-CLASS-62-3
US-PATENT-4,069,028

N78-17336* c 34 ..... NASA-CASE-ARC-10198
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US-PATENT-CLASS-165-134
US-PATENT-3,777,811

N78-17337* c 34 ..... NASA-CASE-ARC-10199
US-PATENT-APPL-SN-824628
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-96
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US-PATENT-3,543,839

N78-17357* c 35 ..... NASA-CASE-MFS-23194-1
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US-PATENT-CLASS-350-3.5
US-PATENT-4,065,202

N78-17358* c 35 ..... NASA-CASE-MSC-11242
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US-PATENT-3,492,858

N78-17359* c 35 ..... NASA-CASE-NPO-11150
US-PATENT-APPL-SN-858950
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US-PATENT-CLASS-338-36
US-PATENT-CLASS-338-99
US-PATENT-3,641,470

N78-17366* c 36 ..... NASA-CASE-MFS-22597
US-PATENT-APPL-SN-395895
US-PATENT-CLASS-315-108
US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5T
US-PATENT-3,882,417

N78-17383* c 37 ..... NASA-CASE-MSC-19666-1
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US-PATENT-CLASS-118-500
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US-PATENT-CLASS-269-21
US-PATENT-CLASS-279-3
US-PATENT-CLASS-51-235
US-PATENT-4,066,039

N78-17384* c 37 ..... NASA-CASE-LEW-12916-1
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US-PATENT-CLASS-60-262
US-PATENT-CLASS-60-271

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N78-17386* c 37 ..... NASA-CASE-NPO-10151
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N78-17395* c 38 ..... NASA-CASE-NPO-13283
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US-PATENT-CLASS-235-156
US-PATENT-CLASS-235-181
US-PATENT-CLASS-250-572
US-PATENT-CLASS-356-237
US-PATENT-3,908,118
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US-PATENT-CLASS-235-156
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US-PATENT-CLASS-250-572
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US-PATENT-CLASS-356-237
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US-PATENT-CLASS-126-271
US-PATENT-CLASS-165-2
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-60-641
US-PATENT-CLASS-62-4
US-PATENT-4,065,053
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US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-36-119
US-PATENT-CLASS-36-92
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US-PATENT-CLASS-3-12.5
US-PATENT-CLASS-74-515E
US-PATENT-4,068,763
N78-17677* c 54 ..... NASA-CASE-MSC-13054
US-PATENT-APPL-SN-585217
US-PATENT-CLASS-2-161
US-PATENT-3,490,074
N78-17678* c 54 ..... NASA-CASE-XMS-04670
US-PATENT-APPL-SN-535169
US-PATENT-CLASS-2-2.1
US-PATENT-3,488,771
N78-17679* c 54 ..... NASA-CASE-XMS-04928
US-PATENT-APPL-SN-584914
US-PATENT-CLASS-98-1
US-PATENT-3,487,765
N78-17680* c 54 ..... NASA-CASE-XMS-09653
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US-PATENT-CLASS-2-6
US-PATENT-3,359,568
N78-17691* c 60 ..... NASA-CASE-GSC-12044-1
US-PATENT-APPL-SN-631341
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US-PATENT-CLASS-358-225
US-PATENT-CLASS-358-41
US-PATENT-CLASS-358-55
US-PATENT-4,067,043
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US-PATENT-CLASS-250-201
US-PATENT-CLASS-350-204
US-PATENT-CLASS-356-28
US-PATENT-4,063,814
N78-17867* c 74 ..... NASA-CASE-NPO-13759-1
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US-PATENT-CLASS-250-344
US-PATENT-CLASS-356-204
US-PATENT-CLASS-356-246
US-PATENT-4,067,653
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US-PATENT-APPL-SN-628221
US-PATENT-CLASS-244-53A
US-PATENT-CLASS-244-54
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-39.31
US-PATENT-4,055,041
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US-PATENT-APPL-SN-583055
US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-262
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US-PATENT-APPL-SN-623536
US-PATENT-CLASS-35-12N
US-PATENT-CLASS-358-104
US-PATENT-4,055,004
N78-18182* c 26 ..... NASA-CASE-LEW-12095-1
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US-PATENT-CLASS-75-124
US-PATENT-CLASS-75-126D
US-PATENT-CLASS-75-126F
US-PATENT-CLASS-75-128G
US-PATENT-CLASS-75-128T
US-PATENT-4,055,416
N78-18183* c 26 ..... NASA-CASE-LEW-12905-1
US-PATENT-APPL-SN-684171
US-PATENT-CLASS-148-32
US-PATENT-CLASS-148-32.5
US-PATENT-CLASS-75-170
US-PATENT-4,055,447
N78-18308* c 33 ..... NASA-CASE-FRC-10090-1
US-PATENT-APPL-SN-737974
US-PATENT-CLASS-307-265
US-PATENT-CLASS-307-350
US-PATENT-CLASS-307-360
US-PATENT-CLASS-328-150
US-PATENT-4,055,777
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US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-405
US-PATENT-CLASS-427-419A
US-PATENT-CLASS-427-423
US-PATENT-CLASS-428-633
US-PATENT-CLASS-428-652
US-PATENT-CLASS-428-667
US-PATENT-4,055,705
N78-18390* c 35 ..... NASA-CASE-MFS-23008-1
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US-PATENT-CLASS-73-DIG.11
US-PATENT-CLASS-73-28
US-PATENT-CLASS-73-432PS
US-PATENT-CLASS-73-432R
US-PATENT-4,055,089
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US-PATENT-APPL-SN-641803
US-PATENT-CLASS-356-106S
US-PATENT-CLASS-356-110
US-PATENT-4,053,231
N78-18395*# c 35 ..... NASA-CASE-NPO-13999-1
US-PATENT-APPL-SN-858596
N78-18410* c 36 ..... NASA-CASE-NPO-13801-1
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US-PATENT-CLASS-332-7.5
US-PATENT-4,055,810
N78-18761* c 54 ..... NASA-CASE-MSC-10954-1
US-PATENT-APPL-SN-529884
US-PATENT-CLASS-2-2.1
US-PATENT-3,514,785
N78-18905* c 74 ..... NASA-CASE-GSC-12010-1
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US-PATENT-CLASS-313-442
US-PATENT-CLASS-313-94
US-PATENT-4,070,574
N78-19302* c 27 ..... NASA-CASE-NPO-13690-1
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US-PATENT-CLASS-106-65
US-PATENT-CLASS-106-73.5
US-PATENT-4,072,532
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US-PATENT-APPL-SN-615030
US-PATENT-CLASS-73-23
US-PATENT-4,055,072
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US-PATENT-CLASS-119-72.5
US-PATENT-CLASS-137-624.11
US-PATENT-4,055,147
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US-PATENT-CLASS-428-667
US-PATENT-CLASS-428-679
US-PATENT-4,055,707
N78-19920* c 73 ..... NASA-CASE-HQN-10841-1
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US-PATENT-CLASS-330-4.3
US-PATENT-4,075,057
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US-PATENT-CLASS-102-49.7
US-PATENT-CLASS-102-70R
US-PATENT-CLASS-285-192
US-PATENT-CLASS-60-39.82E
US-PATENT-4,080,901
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US-PATENT-CLASS-260-2.5AP
US-PATENT-CLASS-260-2.5B
US-PATENT-CLASS-260-2.5BE
US-PATENT-CLASS-260-2.5EP
US-PATENT-CLASS-260-2.5FP
US-PATENT-CLASS-260-29.1R
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-427-427
US-PATENT-4,077,921
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US-PATENT-APPL-SN-708771
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US-PATENT-CLASS-148-125
US-PATENT-4,077,813
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US-PATENT-CLASS-34-15
US-PATENT-CLASS-423-648R
US-PATENT-CLASS-62-100
US-PATENT-CLASS-62-48
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US-PATENT-CLASS-361-395
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US-PATENT-CLASS-29-252
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US-PATENT-CLASS-244-167

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US-PATENT-CLASS-55-100
US-PATENT-CLASS-55-101
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US-PATENT-CLASS-260-33.8UA
US-PATENT-CLASS-260-37EP
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US-PATENT-CLASS-260-45.75W
US-PATENT-CLASS-260-45.85N
US-PATENT-CLASS-260-45.9R
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US-PATENT-CLASS-428-921
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US-PATENT-CLASS-340-174YC
US-PATENT-CLASS-350-151
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US-PATENT-CLASS-415-116
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US-PATENT-CLASS-324-77C
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US-PATENT-CLASS-340-146.1E
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N79-10264* c 32 ..... NASA-CASE-MFS-22234-1
US-PATENT-APPL-SN-730778
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US-PATENT-CLASS-343-9
US-PATENT-4,118,701
N79-10337* c 33 ..... NASA-CASE-KSC-11018-1
US-PATENT-APPL-SN-782693
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US-PATENT-CLASS-324-72
US-PATENT-CLASS-324-96
US-PATENT-4,100,487
N79-10338* c 33 ..... NASA-CASE-GSC-12228-1
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US-PATENT-CLASS-324-83D
US-PATENT-CLASS-324-85
US-PATENT-CLASS-328-163
US-PATENT-4,118,665
N79-10339* c 33 ..... NASA-CASE-LEW-12013-1
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US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-330-43
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US-PATENT-CLASS-252-301.1R
US-PATENT-CLASS-252-301.16
US-PATENT-CLASS-96-27R
US-PATENT-CLASS-96-60R
US-PATENT-4,101,780
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US-PATENT-CLASS-73-589
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US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5W
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N79-10418* c 37 ..... NASA-CASE-LEW-12569-1
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US-PATENT-CLASS-308-121
US-PATENT-CLASS-308-160
US-PATENT-CLASS-308-163
US-PATENT-CLASS-308-172
US-PATENT-CLASS-308-5R
US-PATENT-CLASS-308-9
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US-PATENT-4,117,749

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US-PATENT-CLASS-219-125.1
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US-PATENT-CLASS-29-125
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US-PATENT-CLASS-74-572
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US-PATENT-CLASS-429-42
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US-PATENT-CLASS-165-30
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US-PATENT-CLASS-219-302
US-PATENT-CLASS-62-514R
US-PATENT-CLASS-62-78
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US-PATENT-CLASS-364-417
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US-PATENT-CLASS-228-15.1
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US-PATENT-CLASS-244-159
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US-PATENT-CLASS-431-208
US-PATENT-CLASS-432-223
US-PATENT-CLASS-432-29
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US-PATENT-CLASS-302-66
US-PATENT-CLASS-44-51
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US-PATENT-CLASS-343-854
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US-PATENT-CLASS-325-67
US-PATENT-CLASS-343-17.7
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US-PATENT-CLASS-331-23
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N79-11315* c 33 ..... NASA-CASE-KSC-11031-1
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US-PATENT-CLASS-324-113
US-PATENT-CLASS-324-133
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US-PATENT-CLASS-137-637.05
US-PATENT-CLASS-251-149.9
US-PATENT-CLASS-285-326
US-PATENT-CLASS-285-359
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US-PATENT-CLASS-60-39.28R
US-PATENT-CLASS-60-39.66
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US-PATENT-CLASS-308-72
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US-PATENT-CLASS-123-148E
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US-PATENT-CLASS-315-209SC
US-PATENT-CLASS-315-241R
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US-PATENT-CLASS-136-89SJ
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-65
US-PATENT-CLASS-357-67
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N79-11468* c 44 ..... NASA-CASE-LEW-12775-1
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US-PATENT-CLASS-427-75
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N79-11469* c 44 ..... NASA-CASE-MFS-23518-1
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US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-37R
US-PATENT-CLASS-204-38B
US-PATENT-4,104,134
N79-11470* c 44 ..... NASA-CASE-NPO-14126-1
US-PATENT-APPL-SN-838336
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US-PATENT-CLASS-250-527
US-PATENT-4,105,517
N79-11471* c 44 ..... NASA-CASE-NPO-13817-1
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US-PATENT-CLASS-126-271
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-299
US-PATENT-4,122,833
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US-PATENT-CLASS-427-123
US-PATENT-CLASS-427-126
US-PATENT-CLASS-427-261
US-PATENT-CLASS-427-343
US-PATENT-CLASS-427-398A
US-PATENT-CLASS-427-399
US-PATENT-CLASS-427-75
US-PATENT-CLASS-427-84
US-PATENT-4,122,214
N79-11865* c 74 ..... NASA-CASE-MFS-23513-1
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US-PATENT-CLASS-356-210
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N79-11920* c 76 ..... NASA-CASE-NPO-13918-1
US-PATENT-APPL-SN-706073
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US-PATENT-CLASS-156-DIG.65
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617SP
US-PATENT-4,121,965
N79-12061* c 05 ..... NASA-CASE-FRC-10092-1
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US-PATENT-CLASS-244-82
US-PATENT-CLASS-244-90R
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US-PATENT-APPL-SN-786913
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US-PATENT-CLASS-244-160
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US-PATENT-CLASS-428-212
US-PATENT-CLASS-428-280
US-PATENT-CLASS-428-285
US-PATENT-CLASS-428-286
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-77
US-PATENT-CLASS-428-920
US-PATENT-4,124,732
N79-12321* c 33 ..... NASA-CASE-GSC-12190-1
US-PATENT-APPL-SN-817413
US-PATENT-CLASS-357-22
US-PATENT-CLASS-357-23
US-PATENT-CLASS-357-41
US-PATENT-CLASS-357-45
US-PATENT-CLASS-357-55
US-PATENT-4,119,996
N79-12331* c 33 ..... NASA-CASE-MSC-12662-1
US-PATENT-APPL-SN-540779
US-PATENT-CLASS-428-109
US-PATENT-CLASS-428-247
US-PATENT-CLASS-428-258
US-PATENT-CLASS-428-259
US-PATENT-4,107,363
N79-12359* c 34 ..... NASA-CASE-LAR-11729-1
US-PATENT-APPL-SN-856461
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-194VS
US-PATENT-4,122,712
N79-12541* c 44 ..... NASA-CASE-NPO-14100-1
US-PATENT-APPL-SN-861391
US-PATENT-CLASS-324-20R
US-PATENT-CLASS-324-22
US-PATENT-4,122,383
N79-12584* c 45 ..... NASA-CASE-MSC-16258-1
US-PATENT-APPL-SN-853705
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US-PATENT-CLASS-210-60
US-PATENT-CLASS-210-63R
US-PATENT-CLASS-423-242
US-PATENT-CLASS-55-73
US-PATENT-4,123,355
N79-12694* c 52 ..... NASA-CASE-NPO-13913-1
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US-PATENT-CLASS-128-2R
US-PATENT-CLASS-364-120
US-PATENT-CLASS-364-300
US-PATENT-CLASS-364-415
US-PATENT-CLASS-364-900
US-PATENT-4,122,518
N79-12890* c 74 ..... NASA-CASE-KSC-11010-1
US-PATENT-APPL-SN-753977
US-PATENT-CLASS-200-46
US-PATENT-CLASS-200-61
US-PATENT-CLASS-250-214AL
US-PATENT-CLASS-250-214R
US-PATENT-CLASS-315-153
US-PATENT-4,122,334
N79-13214* c 32 ..... NASA-CASE-NPO-14009-1
US-PATENT-APPL-SN-818917
US-PATENT-CLASS-343-117R
US-PATENT-CLASS-343-118
US-PATENT-CLASS-343-7.4
US-PATENT-4,122,454
N79-13288* c 34 ..... NASA-CASE-LEW-12252-1
US-PATENT-APPL-SN-559847
US-PATENT-CLASS-165-169

US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-267
US-PATENT-4,107,919

N79-13289* c 34 ..... NASA-CASE-LEW-12441-1
US-PATENT-APPL-SN-559846
US-PATENT-CLASS-165-146
US-PATENT-CLASS-165-169
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-267
US-PATENT-4,108,241

N79-13364* c 37 ..... NASA-CASE-LAR-10941-2
US-PATENT-APPL-SN-395493
US-PATENT-CLASS-228-107
US-PATENT-CLASS-228-2.5
US-PATENT-CLASS-29-421E
US-PATENT-4,106,687

N79-13826* c 72 ..... NASA-CASE-NPO-13993-1
US-PATENT-APPL-SN-782463
US-PATENT-CLASS-331-94.5L
US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-331-94.5PE
US-PATENT-4,107,627

N79-13855* c 74 ..... NASA-CASE-MFS-23052-2
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US-PATENT-APPL-SN-772165
US-PATENT-CLASS-35-12C
US-PATENT-CLASS-35-12N
US-PATENT-CLASS-358-104
US-PATENT-4,106,218

N79-14095* c 07 ..... NASA-CASE-LEW-13050-1
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US-PATENT-CLASS-416-157B
US-PATENT-CLASS-416-160
US-PATENT-CLASS-416-162
US-PATENT-CLASS-416-167
US-PATENT-4,124,330

N79-14096* c 07 ..... NASA-CASE-LEW-12389-3
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US-PATENT-APPL-SN-753452
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-54
US-PATENT-CLASS-415-200
US-PATENT-CLASS-415-201
US-PATENT-CLASS-60-226A
US-PATENT-CLASS-60-226R
US-PATENT-CLASS-60-39.31
US-PATENT-4,132,069

N79-14097* c 07 ..... NASA-CASE-LEW-12378-1
US-PATENT-APPL-SN-573029
US-PATENT-CLASS-239-265.39
US-PATENT-CLASS-60-226A
US-PATENT-4,132,068

N79-14108* c 08 ..... NASA-CASE-LAR-11868-2
US-PATENT-APPL-SN-651002
US-PATENT-APPL-SN-779429
US-PATENT-CLASS-244-218
US-PATENT-CLASS-244-46
US-PATENT-CLASS-244-90R
US-PATENT-4,132,375

N79-14156* c 24 ..... NASA-CASE-GSC-12207-1
US-PATENT-APPL-SN-844344
US-PATENT-CLASS-106-296
US-PATENT-CLASS-106-84
US-PATENT-CLASS-252-518
US-PATENT-4,111,851

N79-14169* c 25 ..... NASA-CASE-ARC-11121-1
US-PATENT-APPL-SN-850507
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US-PATENT-CLASS-204-180S
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-23-230B
US-PATENT-CLASS-424-12
US-PATENT-4,130,471

N79-14213* c 27 ..... NASA-CASE-NPO-13690-2
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US-PATENT-CLASS-264-60
US-PATENT-CLASS-75-203
US-PATENT-CLASS-75-205
US-PATENT-CLASS-75-206
US-PATENT-CLASS-75-212
US-PATENT-CLASS-75-226
US-PATENT-4,131,459

N79-14214* c 27 ..... NASA-CASE-ARC-10892-2
US-PATENT-APPL-SN-589172
US-PATENT-APPL-SN-767912
US-PATENT-CLASS-427-294
US-PATENT-CLASS-427-41
US-PATENT-CLASS-428-411
US-PATENT-4,132,829

N79-14228* c 28 ..... NASA-CASE-NPO-10866-1
US-PATENT-APPL-SN-849274
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-19.92
US-PATENT-CLASS-149-20
US-PATENT-4,111,729

N79-14267* c 32 ..... NASA-CASE-NPO-13982-1
US-PATENT-APPL-SN-782464
US-PATENT-CLASS-329-122
US-PATENT-CLASS-343-14
US-PATENT-CLASS-364-458
US-PATENT-CLASS-364-604
US-PATENT-CLASS-364-728
US-PATENT-4,112,497

N79-14268* c 32 ..... NASA-CASE-NPO-14019-1
US-PATENT-APPL-SN-843308
US-PATENT-CLASS-343-100CL
US-PATENT-CLASS-343-5CM
US-PATENT-4,132,989

N79-14305* c 33 ..... NASA-CASE-KSC-11057-1
US-PATENT-APPL-SN-835544
US-PATENT-CLASS-324-102
US-PATENT-CLASS-324-112
US-PATENT-CLASS-324-113
US-PATENT-CLASS-324-133
US-PATENT-CLASS-324-72
US-PATENT-4,112,357

N79-14345* c 35 ..... NASA-CASE-LEW-12661-1
US-PATENT-APPL-SN-837796
US-PATENT-CLASS-73-115
US-PATENT-4,111,041

N79-14346* c 35 ..... NASA-CASE-LEW-12174-2
US-PATENT-APPL-SN-667929
US-PATENT-APPL-SN-853679
US-PATENT-CLASS-136-202
US-PATENT-CLASS-136-236
US-PATENT-4,111,718

N79-14347* c 35 ..... NASA-CASE-LAR-12230-1
US-PATENT-APPL-SN-835628
US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-4R
US-PATENT-CLASS-73-714
US-PATENT-CLASS-73-721
US-PATENT-CLASS-73-756
US-PATENT-4,111,058

N79-14348* c 35 ..... NASA-CASE-NPO-13569-2
US-PATENT-APPL-SN-565162
US-PATENT-APPL-SN-804035
US-PATENT-CLASS-318-573
US-PATENT-CLASS-318-594
US-PATENT-CLASS-318-640
US-PATENT-4,132,940

N79-14349* c 35 ..... NASA-CASE-LAR-11859-1
US-PATENT-APPL-SN-861396
US-PATENT-CLASS-324-57R
US-PATENT-4,130,795

N79-14362* c 36 ..... NASA-CASE-GSC-12334-1
US-PATENT-APPL-SN-856464
US-PATENT-CLASS-324-0.5
US-PATENT-CLASS-331-94
US-PATENT-4,128,814

N79-14382* c 37 ..... NASA-CASE-LAR-11900-1
US-PATENT-APPL-SN-775239
US-PATENT-CLASS-403-105
US-PATENT-CLASS-416-61
US-PATENT-CLASS-74-586
US-PATENT-4,111,068

N79-14383* c 37 ..... NASA-CASE-NPO-13541-1
US-PATENT-APPL-SN-828262
US-PATENT-CLASS-81-119
US-PATENT-CLASS-81-180B
US-PATENT-CLASS-81-90B
US-PATENT-4,130,032

N79-14398* c 38 ..... NASA-CASE-MSC-19672-1
US-PATENT-APPL-SN-696679
US-PATENT-CLASS-310-326
US-PATENT-CLASS-310-336
US-PATENT-CLASS-73-632
US-PATENT-CLASS-73-641
US-PATENT-CLASS-73-644
US-PATENT-4,122,725

N79-14526* c 44 ..... NASA-CASE-NPO-13921-1
US-PATENT-APPL-SN-785257
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-4,111,184

N79-14527* c 44 ..... NASA-CASE-HQN-10888-1
US-PATENT-APPL-SN-760057
US-PATENT-CLASS-188-151A
US-PATENT-CLASS-188-269
US-PATENT-CLASS-303-92
US-PATENT-CLASS-415-9
US-PATENT-CLASS-416-2
US-PATENT-CLASS-74-572
US-PATENT-4,132,130

N79-14528* c 44 ..... NASA-CASE-LEW-12236-2
US-PATENT-APPL-SN-760771
US-PATENT-APPL-SN-899123
US-PATENT-CLASS-136-89SJ
US-PATENT-CLASS-357-30
US-PATENT-4,131,486

N79-14529* c 44 ..... NASA-CASE-NPO-13579-4
US-PATENT-APPL-SN-906297
US-PATENT-CLASS-126-271
US-PATENT-CLASS-350-292
US-PATENT-CLASS-350-293
US-PATENT-CLASS-350-320
US-PATENT-4,131,336

N79-14749* c 52 ..... NASA-CASE-NPO-13930-1
US-PATENT-APPL-SN-700467
US-PATENT-CLASS-128-214D
US-PATENT-CLASS-128-272
US-PATENT-CLASS-150-1
US-PATENT-CLASS-195-1.8
US-PATENT-CLASS-206-439
US-PATENT-CLASS-210-DIG.23
US-PATENT-CLASS-422-41
US-PATENT-CLASS-422-48
US-PATENT-CLASS-55-15-8
US-PATENT-4,132,594

N79-14750* c 52 ..... NASA-CASE-GSC-12046-1
US-PATENT-APPL-SN-680015
US-PATENT-CLASS-195-103.5K
US-PATENT-CLASS-195-103.5L
US-PATENT-4,132,599

N79-14751* c 52 ..... NASA-CASE-NPO-13935-1
NASA-CASE-NPO-13944-1
US-PATENT-APPL-SN-741749
US-PATENT-CLASS-128-2V
US-PATENT-CLASS-73-633
US-PATENT-CLASS-73-644
US-PATENT-4,130,112

N79-14871* c 71 ..... NASA-CASE-LEW-12658-1
US-PATENT-APPL-SN-702115
US-PATENT-CLASS-181-190
US-PATENT-CLASS-181-213
US-PATENT-CLASS-181-222
US-PATENT-CLASS-181-293
US-PATENT-4,106,587

N79-14891* c 74 ..... NASA-CASE-GSC-12225-1
US-PATENT-APPL-SN-823566
US-PATENT-CLASS-350-157
US-PATENT-4,129,357

N79-14906* c 76 ..... NASA-CASE-MFS-23541-1
US-PATENT-APPL-SN-814005
US-PATENT-CLASS-204-192C
US-PATENT-4,111,775

N79-15245* c 33 ..... NASA-CASE-ARC-10975-1
US-PATENT-APPL-SN-799832
US-PATENT-CLASS-250-531
US-PATENT-CLASS-250-540
US-PATENT-CLASS-250-541
US-PATENT-4,130,490

N79-16246* c 35 ..... NASA-CASE-NPO-10872-1
US-PATENT-APPL-SN-805549
US-PATENT-CLASS-179-100.2CH
US-PATENT-CLASS-340-174.1M
US-PATENT-CLASS-346-74MT
US-PATENT-3,626,114

N79-16678* c 76 ..... NASA-CASE-NPO-11336-1
NASA-CASE-NPO-13247-1
US-PATENT-APPL-SN-302913
US-PATENT-CLASS-117-107
US-PATENT-CLASS-117-119
US-PATENT-CLASS-117-234
US-PATENT-CLASS-117-235
US-PATENT-CLASS-117-237
US-PATENT-CLASS-117-239
US-PATENT-CLASS-117-240
US-PATENT-CLASS-148-121
US-PATENT-CLASS-148-6
US-PATENT-CLASS-75-134D
US-PATENT-3,837,908

N79-16915* c 24 ..... NASA-CASE-ARC-11040-1
US-PATENT-APPL-SN-778195
US-PATENT-CLASS-156-331
US-PATENT-CLASS-428-117
US-PATENT-CLASS-428-119
US-PATENT-CLASS-428-375
US-PATENT-CLASS-428-458
US-PATENT-CLASS-428-73
US-PATENT-4,135,019

N79-17029* c 31 ..... NASA-CASE-GSC-12168-1
US-PATENT-APPL-SN-838337
US-PATENT-CLASS-165-30
US-PATENT-CLASS-174-15CA
US-PATENT-CLASS-250-352
US-PATENT-CLASS-62-514R
US-PATENT-4,134,447

N79-17133* c 33 ..... NASA-CASE-MFS-23659-1
US-PATENT-APPL-SN-782462
US-PATENT-CLASS-323-44F
US-PATENT-CLASS-336-DIG.1
US-PATENT-4,135,127

N79-17192* c 35 ..... NASA-CASE-LEW-11583-1
US-PATENT-APPL-SN-414042
US-PATENT-CLASS-55-118
US-PATENT-CLASS-55-122
US-PATENT-CLASS-55-127

US-PATENT-CLASS-55-155
US-PATENT-CLASS-55-241
US-PATENT-CLASS-55-242
US-PATENT-CLASS-55-360
US-PATENT-CLASS-55-407
US-PATENT-4,134,744

N79-17288* c 43 ..... NASA-CASE-NPO-13691-1
US-PATENT-APPL-SN-664091
US-PATENT-CLASS-250-226
US-PATENT-CLASS-356-300
US-PATENT-CLASS-356-407
US-PATENT-CLASS-356-416
US-PATENT-4,134,683

N79-17313* c 44 ..... NASA-CASE-LEW-12358-1
US-PATENT-APPL-SN-776146
US-PATENT-CLASS-429-101
US-PATENT-CLASS-429-33
US-PATENT-4,133,941

N79-17314* c 44 ..... NASA-CASE-NPO-13652-1
US-PATENT-APPL-SN-809890
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-4,133,697

N79-17747* c 85 ..... NASA-CASE-NPO-13847-2
NASA-CASE-NPO-13848-2
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US-PATENT-CLASS-162-14
US-PATENT-CLASS-162-29
US-PATENT-CLASS-210-28
US-PATENT-CLASS-210-40
US-PATENT-CLASS-210-45
US-PATENT-CLASS-210-54
US-PATENT-CLASS-210-66
US-PATENT-CLASS-210-67
US-PATENT-CLASS-210-70
US-PATENT-CLASS-210-73R
US-PATENT-4,134,786

N79-17847* c 05 ..... NASA-CASE-ARC-11045-1
US-PATENT-APPL-SN-818916
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US-PATENT-CLASS-416-138
US-PATENT-CLASS-416-51
US-PATENT-CLASS-416-88
US-PATENT-CLASS-416-89
US-PATENT-4,137,010

N79-17916* c 24 ..... NASA-CASE-LEW-11930-4
US-PATENT-APPL-SN-860406
US-PATENT-CLASS-252-12.2
US-PATENT-CLASS-308-DIG.8
US-PATENT-CLASS-308-DIG.9
US-PATENT-CLASS-308-168
US-PATENT-CLASS-308-171
US-PATENT-CLASS-308-78
US-PATENT-CLASS-308-87R
US-PATENT-CLASS-427-292
US-PATENT-CLASS-427-327
US-PATENT-CLASS-427-328
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-355
US-PATENT-CLASS-427-376B
US-PATENT-CLASS-427-376C
US-PATENT-4,136,211

N79-18052* c 27 ..... NASA-CASE-ARC-10915-2
US-PATENT-APPL-SN-634304
US-PATENT-APPL-SN-779883
US-PATENT-CLASS-427-40
US-PATENT-CLASS-427-41
US-PATENT-CLASS-428-412
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-451
US-PATENT-4,137,365

N79-18193* c 33 ..... NASA-CASE-KSC-10899-1
US-PATENT-APPL-SN-814004
US-PATENT-CLASS-324-127
US-PATENT-CLASS-324-133
US-PATENT-CLASS-324-52
US-PATENT-CLASS-340-650
US-PATENT-CLASS-340-664
US-PATENT-4,110,683

N79-18296* c 35 ..... NASA-CASE-LAR-12275-1
US-PATENT-APPL-SN-885065
US-PATENT-CLASS-356-28
US-PATENT-CLASS-358-107
US-PATENT-4,135,817

N79-18307* c 36 ..... NASA-CASE-LAR-12183-1
US-PATENT-CLASS-331-94.5G
US-PATENT-CLASS-331-94.5P
US-PATENT-CLASS-788-704
US-PATENT-4,110,703

N79-18318* c 37 ..... NASA-CASE-LEW-12131-1
US-PATENT-APPL-SN-801290
US-PATENT-CLASS-415-174
US-PATENT-CLASS-415-200
US-PATENT-4,135,851

N79-18443* c 44 ..... NASA-CASE-NPO-14058-1
US-PATENT-APPL-SN-824024
US-PATENT-CLASS-126-271
US-PATENT-CLASS-165-105
US-PATENT-CLASS-60-508
US-PATENT-CLASS-60-572
US-PATENT-CLASS-60-641
US-PATENT-4,135,367

N79-18444* c 44 ..... NASA-CASE-LEW-12819-2
US-PATENT-APPL-SN-863770
US-PATENT-CLASS-148-6.3
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-591
US-PATENT-4,135,290

N79-18580* c 52 ..... NASA-CASE-ARC-11035-1
US-PATENT-APPL-SN-758721
US-PATENT-CLASS-128-2.05Z
US-PATENT-CLASS-128-2.1A
US-PATENT-CLASS-128-2V
US-PATENT-4,109,644

N79-19186* c 32 ..... NASA-CASE-WOO-00428-1
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US-PATENT-CLASS-117-35
US-PATENT-3,173,801

N79-19195*# c 32 ..... NASA-CASE-NPO-14525-1
US-PATENT-APPL-SN-017885

N79-19447* c 44 ..... NASA-CASE-XGS-00829-1
US-PATENT-APPL-SN-286824
US-PATENT-CLASS-269-153
US-PATENT-3,262,694

N79-20179* c 20 ..... NASA-CASE-LEW-12780-1
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US-PATENT-CLASS-323-20
US-PATENT-4,143,314

N79-20296* c 32 ..... NASA-CASE-GSC-12148-1
US-PATENT-APPL-SN-786322
US-PATENT-CLASS-325-58
US-PATENT-CLASS-325-63
US-PATENT-CLASS-343-179
US-PATENT-4,140,972

N79-20297* c 32 ..... NASA-CASE-MSC-16253-1
US-PATENT-APPL-SN-831631
US-PATENT-CLASS-358-109
US-PATENT-CLASS-358-81
US-PATENT-CLASS-364-713
US-PATENT-4,139,862

N79-20314* c 33 ..... NASA-CASE-GSC-12138-1
US-PATENT-APPL-SN-779871
US-PATENT-CLASS-310-231
US-PATENT-CLASS-310-46
US-PATENT-CLASS-310-82
US-PATENT-4,142,119

N79-20335* c 34 ..... NASA-CASE-NPO-14130-1
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US-PATENT-CLASS-415-1
US-PATENT-CLASS-415-143
US-PATENT-CLASS-60-645
US-PATENT-CLASS-60-649
US-PATENT-4,141,219

N79-20336* c 34 ..... NASA-CASE-LEW-11981-2
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US-PATENT-CLASS-250-352
US-PATENT-CLASS-313-22
US-PATENT-CLASS-313-35
US-PATENT-CLASS-62-268
US-PATENT-CLASS-62-376
US-PATENT-CLASS-62-514R
US-PATENT-4,141,224

N79-20377* c 37 ..... NASA-CASE-MSC-19514-1
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US-PATENT-CLASS-74-674
US-PATENT-CLASS-74-705
US-PATENT-CLASS-74-764
US-PATENT-4,141,259

N79-20751* c 60 ..... NASA-CASE-NPO-13676-1
US-PATENT-APPL-SN-779415
US-PATENT-CLASS-340-347DD
US-PATENT-CLASS-364-900
US-PATENT-4,139,839

N79-20827* c 71 ..... NASA-CASE-NPO-14005-1
US-PATENT-APPL-SN-812447
US-PATENT-CLASS-310-20
US-PATENT-CLASS-310-26
US-PATENT-CLASS-310-322
US-PATENT-CLASS-310-334
US-PATENT-CLASS-318-116
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
US-PATENT-4,139,806

N79-20856* c 74 ..... NASA-CASE-NPO-14174-1
US-PATENT-APPL-SN-876441
US-PATENT-CLASS-250-237G
US-PATENT-CLASS-354-77
US-PATENT-CLASS-356-129
US-PATENT-4,139,291

N79-20857* c 74 ..... NASA-CASE-GSC-12263-1
US-PATENT-APPL-SN-817415
US-PATENT-CLASS-250-363R
US-PATENT-CLASS-250-483
US-PATENT-4,142,101

N79-21083* c 09 ..... NASA-CASE-LAR-10135-1
US-PATENT-APPL-SN-648034
US-PATENT-CLASS-73-147
US-PATENT-3,453,878

N79-21084* c 09 ..... NASA-CASE-XLE-03186-1
US-PATENT-APPL-SN-200770
US-PATENT-CLASS-89-8
US-PATENT-3,224,337

N79-21123* c 20 ..... NASA-CASE-XMF-06884-1
US-PATENT-APPL-SN-579300
US-PATENT-CLASS-164-105
US-PATENT-3,485,290

N79-21124* c 20 ..... NASA-CASE-XMF-05964-1
US-PATENT-APPL-SN-578397
US-PATENT-CLASS-60-243
US-PATENT-3,390,528

N79-21125* c 20 ..... NASA-CASE-XMF-04592-1
NASA-CASE-XMF-04593-1
US-PATENT-APPL-SN-579376
US-PATENT-CLASS-60-39.74
US-PATENT-3,397,537

N79-21190* c 27 ..... NASA-CASE-XMF-02526-1
NASA-CASE-XMF-02527-1
NASA-CASE-XMF-02783-1
US-PATENT-APPL-SN-483817
US-PATENT-CLASS-260-2
US-PATENT-3,311,571

N79-21191* c 27 ..... NASA-CASE-XMF-06900-1
US-PATENT-APPL-SN-554959
US-PATENT-CLASS-260-67
US-PATENT-3,419,531

N79-21225* c 31 ..... NASA-CASE-XLE-02367-1
US-PATENT-APPL-SN-400857
US-PATENT-CLASS-222-131
US-PATENT-3,215,313

N79-21226* c 31 ..... NASA-CASE-MFS-10946-1
US-PATENT-APPL-SN-581843
US-PATENT-CLASS-156-52
US-PATENT-3,481,802

N79-21227* c 31 ..... NASA-CASE-XMF-05757-1
US-PATENT-APPL-SN-562558
US-PATENT-CLASS-117-43
US-PATENT-3,511,680

N79-21264* c 33 ..... NASA-CASE-XMF-05373-1
US-PATENT-APPL-SN-474815
US-PATENT-CLASS-335-216
US-PATENT-3,310,765

N79-21265* c 33 ..... NASA-CASE-XNP-02899-1
US-PATENT-APPL-SN-472643
US-PATENT-CLASS-317-245
US-PATENT-3,356,917

N79-21345* c 37 ..... NASA-CASE-XMS-01295-1
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US-PATENT-CLASS-55-159
US-PATENT-3,131,040

N79-21750* c 52 ..... NASA-CASE-MSC-12239-1
US-PATENT-APPL-SN-292340
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US-PATENT-3,396,719

N79-21910* c 76 ..... NASA-CASE-XLE-02545-1
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US-PATENT-3,429,756

N79-22235* c 25 ..... NASA-CASE-LEW-12513-1
US-PATENT-APPL-SN-772167
US-PATENT-CLASS-195-103.5R
US-PATENT-CLASS-195-127
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-2041-195B
US-PATENT-4,145,255

N79-22271* c 26 ..... NASA-CASE-LEW-12542-2
US-PATENT-APPL-SN-803822
US-PATENT-APPL-SN-860405
US-PATENT-CLASS-148-12.4
US-PATENT-CLASS-148-12F
US-PATENT-CLASS-148-2
US-PATENT-4,146,409

N79-22300* c 27 ..... NASA-CASE-ARC-11060-1
US-PATENT-APPL-SN-843090
US-PATENT-CLASS-260-307G
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-4,145,524

N79-22373* c 33 ..... NASA-CASE-KSC-11008-1
US-PATENT-APPL-SN-780729
US-PATENT-CLASS-324-123C
US-PATENT-CLASS-324-99D
US-PATENT-CLASS-330-2
US-PATENT-CLASS-330-51
US-PATENT-CLASS-330-86
US-PATENT-4,109,213

N79-22474* c 37 ..... NASA-CASE-MFS-23646-1
US-PATENT-APPL-SN-891372
US-PATENT-CLASS-138-96R
US-PATENT-CLASS-220-266
US-PATENT-CLASS-239-265.15
US-PATENT-CLASS-239-288
US-PATENT-CLASS-277-192
US-PATENT-4,146,180
N79-22475* c 37 ..... NASA-CASE-LEW-11873-1
US-PATENT-APPL-SN-814006
US-PATENT-CLASS-277-62
US-PATENT-CLASS-277-96.1
US-PATENT-4,145,058
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US-PATENT-APPL-SN-889670
US-PATENT-CLASS-73-770
US-PATENT-CLASS-73-810
US-PATENT-4,145,933
N79-22679* c 46 ..... NASA-CASE-NPO-14112-1
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US-PATENT-CLASS-166-63
US-PATENT-CLASS-175-1
US-PATENT-CLASS-181-106
US-PATENT-CLASS-181-117
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N79-23097* c 08 ..... NASA-CASE-LAR-12215-1
US-PATENT-APPL-SN-858762
US-PATENT-CLASS-244-17.13
US-PATENT-CLASS-244-195
US-PATENT-CLASS-244-83G
US-PATENT-CLASS-318-585
US-PATENT-CLASS-318-616
US-PATENT-CLASS-364-434
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N79-23310* c 32 ..... NASA-CASE-KSC-11023-1
US-PATENT-APPL-SN-918533
US-PATENT-CLASS-179-1MN
US-PATENT-CLASS-179-27CA
US-PATENT-CLASS-179-84VF
US-PATENT-4,153,818
N79-23345* c 33 ..... NASA-CASE-FRC-10116-1
US-PATENT-APPL-SN-885049
US-PATENT-CLASS-323-22T
US-PATENT-4,151,456
N79-23481* c 44 ..... NASA-CASE-MFS-23349-1
US-PATENT-APPL-SN-823061
US-PATENT-CLASS-126-270
US-PATENT-CLASS-126-271
US-PATENT-4,148,295
N79-23555* c 46 ..... NASA-CASE-NPO-14255-1
US-PATENT-APPL-SN-830458
US-PATENT-CLASS-181-115
US-PATENT-CLASS-181-120
US-PATENT-CLASS-340-12R
US-PATENT-4,153,134
N79-23753* c 71 ..... NASA-CASE-NPO-14134-1
US-PATENT-APPL-SN-861392
US-PATENT-CLASS-179-1DM
US-PATENT-CLASS-179-1MF
US-PATENT-CLASS-181-148
US-PATENT-CLASS-340-8LF
US-PATENT-4,149,034
N79-23798* c 76 ..... NASA-CASE-NPO-13969-1
US-PATENT-APPL-SN-820499
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US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-423-345
US-PATENT-4,152,194
N79-24062* c 24 ..... NASA-CASE-ARC-11169-1
US-PATENT-APPL-SN-940688
US-PATENT-CLASS-428-366
US-PATENT-4,148,962
N79-24073* c 25 ..... NASA-CASE-LAR-11922-1
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US-PATENT-CLASS-195-127
US-PATENT-CLASS-204-195B
US-PATENT-4,149,938
N79-24203* c 32 ..... NASA-CASE-LAR-12375-1
US-PATENT-APPL-SN-900842
US-PATENT-CLASS-73-647
US-PATENT-CLASS-73-724
US-PATENT-4,149,423
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US-PATENT-APPL-SN-777983
US-PATENT-CLASS-343-100TD
US-PATENT-4,148,031
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US-PATENT-CLASS-307-82
US-PATENT-CLASS-363-56
US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-97
US-PATENT-4,150,425
N79-24257* c 33 ..... NASA-CASE-NPO-14056-1
US-PATENT-APPL-SN-833637
US-PATENT-CLASS-363-134
US-PATENT-CLASS-363-71
US-PATENT-CLASS-363-95
US-PATENT-4,149,233
N79-24285* c 34 ..... NASA-CASE-MSC-16841-1
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US-PATENT-CLASS-210-108
US-PATENT-CLASS-210-142
US-PATENT-CLASS-73-714
US-PATENT-4,151,086
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US-PATENT-CLASS-228-6
US-PATENT-CLASS-29-57-4
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-739
US-PATENT-CLASS-29-809
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US-PATENT-APPL-SN-762363
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US-PATENT-CLASS-264-34
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US-PATENT-CLASS-264-71
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US-PATENT-CLASS-350-296
US-PATENT-CLASS-405-229
US-PATENT-CLASS-405-263
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US-PATENT-APPL-SN-762362
US-PATENT-CLASS-126-271
US-PATENT-CLASS-126-400
US-PATENT-CLASS-237-1A
US-PATENT-CLASS-350-288
US-PATENT-CLASS-350-299
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N79-24651* c 54 ..... NASA-CASE-ARC-11058-2
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US-PATENT-APPL-SN-883094
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-235
US-PATENT-4,091,464
US-PATENT-4,151,612
N79-24652* c 54 ..... NASA-CASE-NPO-13906-1
US-PATENT-APPL-SN-837259
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-3-12.5
US-PATENT-CLASS-414-6
US-PATENT-4,149,278
N79-24976* c 05 ..... NASA-CASE-LEW-11890-1
US-PATENT-APPL-SN-891244
US-PATENT-CLASS-137-15.1
US-PATENT-CLASS-244-53B
US-PATENT-4,154,256
N79-25142* c 24 ..... NASA-CASE-MSC-12737-1
US-PATENT-APPL-SN-788045
US-PATENT-CLASS-102-105
US-PATENT-CLASS-244-121
US-PATENT-CLASS-244-163
US-PATENT-CLASS-427-350
US-PATENT-CLASS-427-372A
US-PATENT-CLASS-428-137
US-PATENT-CLASS-428-282
US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-332
US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-920
US-PATENT-4,151,800
N79-25143* c 24 ..... NASA-CASE-GSC-11577-3
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US-PATENT-APPL-SN-506803
US-PATENT-APPL-SN-645502
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US-PATENT-CLASS-220-2.2
US-PATENT-CLASS-65-43
US-PATENT-3,859,714
US-PATENT-4,155,475
N79-25443* c 43 ..... NASA-CASE-MFS-23720-3
US-PATENT-APPL-SN-848420
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,154,084
N79-25481* c 44 ..... NASA-CASE-LEW-12972-1
US-PATENT-APPL-SN-897829
US-PATENT-CLASS-429-253
US-PATENT-CLASS-526-7
US-PATENT-CLASS-526-9
US-PATENT-4,154,912
N79-25482* c 44 ..... NASA-CASE-NPO-14199-1
NASA-CASE-NPO-14200-1
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US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-136-89PC
US-PATENT-CLASS-136-89SJ
US-PATENT-4,153,476
N79-26075* c 12 ..... NASA-CASE-MFS-23460-1
US-PATENT-APPL-SN-746578
US-PATENT-CLASS-13-20
US-PATENT-CLASS-13-22
US-PATENT-CLASS-13-24
US-PATENT-CLASS-219-410
US-PATENT-4,158,742
N79-26100* c 15 ..... NASA-CASE-ARC-11104-1
US-PATENT-APPL-SN-854920
US-PATENT-CLASS-244-121
US-PATENT-CLASS-260-37EP
US-PATENT-CLASS-260-830S
US-PATENT-CLASS-264-102
US-PATENT-CLASS-264-145
US-PATENT-CLASS-264-151
US-PATENT-CLASS-264-175
US-PATENT-CLASS-264-236
US-PATENT-CLASS-428-220
US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-414
US-PATENT-CLASS-428-418
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-920
US-PATENT-4,156,752
N79-26372* c 35 ..... NASA-CASE-LAR-11889-1
US-PATENT-APPL-SN-662182
US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-178R
US-PATENT-4,156,548
N79-26439* c 43 ..... NASA-CASE-MFS-23726-1
US-PATENT-APPL-SN-848418
US-PATENT-CLASS-105-161
US-PATENT-CLASS-299-1
US-PATENT-CLASS-33-1N
US-PATENT-CLASS-33-1Q
US-PATENT-CLASS-33-174L
US-PATENT-CLASS-364-560
US-PATENT-4,156,971
N79-26474* c 44 ..... NASA-CASE-LEW-13150-1
US-PATENT-APPL-SN-914260
US-PATENT-CLASS-429-101
US-PATENT-CLASS-429-15
US-PATENT-4,159,366
N79-26475* c 44 ..... NASA-CASE-MFS-23540-1
US-PATENT-APPL-SN-863773
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-577
US-PATENT-CLASS-29-578
US-PATENT-CLASS-29-580
US-PATENT-CLASS-357-45
US-PATENT-4,156,309
N79-26771* c 52 ..... NASA-CASE-ARC-10994-2
US-PATENT-APPL-SN-759965
US-PATENT-CLASS-128-660
US-PATENT-CLASS-73-626
US-PATENT-4,154,230
N79-26772* c 52 ..... NASA-CASE-KSC-11069-1
US-PATENT-APPL-SN-876438
US-PATENT-CLASS-3-1.9
US-PATENT-CLASS-3-12
US-PATENT-CLASS-3-2
US-PATENT-4,158,895
N79-27836* c 52 ..... NASA-CASE-NPO-13910-1
US-PATENT-APPL-SN-712270
US-PATENT-CLASS-128-329R
US-PATENT-CLASS-128-639
US-PATENT-4,154,228
N79-28253* c 25 ..... NASA-CASE-NPO-13650-1
US-PATENT-APPL-SN-704468
US-PATENT-CLASS-118-49
US-PATENT-CLASS-23-252R
US-PATENT-CLASS-248
US-PATENT-CLASS-253
US-PATENT-CLASS-337
US-PATENT-CLASS-349
US-PATENT-CLASS-423-33-5
US-PATENT-CLASS-427-95
US-PATENT-4,033,286
N79-28307* c 27 ..... NASA-CASE-LEW-12053-2
US-PATENT-APPL-SN-796263
US-PATENT-CLASS-260-37N
US-PATENT-CLASS-260-42
US-PATENT-CLASS-260-53
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-127
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-221
US-PATENT-CLASS-528-223

US-PATENT-CLASS-528-225
US-PATENT-CLASS-528-227
US-PATENT-CLASS-528-229
US-PATENT-CLASS-528-331
US-PATENT-CLASS-528-336
US-PATENT-CLASS-528-337
US-PATENT-CLASS-528-338
US-PATENT-CLASS-528-342
US-PATENT-CLASS-544-193
US-PATENT-4,159,262

N79-28342* c 28 ..... NASA-CASE-NPO-14260-1
US-PATENT-APPL-SN-861390
US-PATENT-CLASS-149-19.4
US-PATENT-CLASS-149-19.9
US-PATENT-CLASS-149-20
US-PATENT-4,158,583

N79-28370* c 31 ..... NASA-CASE-MFS-23721-1
US-PATENT-APPL-SN-847277
US-PATENT-CLASS-343-14
US-PATENT-CLASS-343-5NA
US-PATENT-4,161,731

N79-28415* c 33 ..... NASA-CASE-MSC-16697-1
US-PATENT-APPL-SN-885067
US-PATENT-CLASS-307-119
US-PATENT-CLASS-307-98
US-PATENT-CLASS-361-170
US-PATENT-4,161,661

N79-28416* c 33 ..... NASA-CASE-GSC-12171-1
US-PATENT-APPL-SN-878542
US-PATENT-CLASS-343-909
US-PATENT-4,160,254

N79-28527* c 35 ..... NASA-CASE-NPO-13953-1
US-PATENT-APPL-SN-880727
US-PATENT-CLASS-356-237
US-PATENT-CLASS-356-404
US-PATENT-4,160,601

N79-28549* c 37 ..... NASA-CASE-GSC-12297-1
US-PATENT-APPL-SN-880838
US-PATENT-CLASS-165-105
US-PATENT-CLASS-357-74
US-PATENT-CLASS-357-79
US-PATENT-CLASS-357-81
US-PATENT-CLASS-357-82
US-PATENT-CLASS-357-83
US-PATENT-4,161,747

N79-28550* c 37 ..... NASA-CASE-GSC-12274-1
US-PATENT-APPL-SN-909100
US-PATENT-CLASS-251-7
US-PATENT-CLASS-72-436
US-PATENT-CLASS-72-451
US-PATENT-CLASS-72-470
US-PATENT-4,159,634

N79-28551* c 37 ..... NASA-CASE-ARC-11052-1
US-PATENT-APPL-SN-826202
US-PATENT-CLASS-414-4
US-PATENT-4,160,508

N79-31228* c 09 ..... NASA-CASE-LAR-12149-2
US-PATENT-APPL-SN-829314
US-PATENT-APPL-SN-928131
US-PATENT-CLASS-35-12E
US-PATENT-CLASS-35-12H
US-PATENT-4,164,079

N79-31347* c 24 ..... NASA-CASE-GSC-12303-1
US-PATENT-APPL-SN-862880
US-PATENT-CLASS-106-74
US-PATENT-CLASS-106-84
US-PATENT-4,162,169

N79-31523* c 34 ..... NASA-CASE-GSC-12253-1
US-PATENT-APPL-SN-853677
US-PATENT-CLASS-165-105
US-PATENT-CLASS-165-32
US-PATENT-CLASS-244-1R
US-PATENT-CLASS-244-163
US-PATENT-4,162,701

N79-31706* c 43 ..... NASA-CASE-MFS-23725-1
US-PATENT-APPL-SN-848793
US-PATENT-CLASS-250-253
US-PATENT-CLASS-250-272
US-PATENT-4,165,460

N79-31752* c 44 ..... NASA-CASE-NPO-14205-1
US-PATENT-APPL-SN-920879
US-PATENT-CLASS-106-1
US-PATENT-CLASS-106-1.2
US-PATENT-CLASS-136-89CC
US-PATENT-CLASS-252-514
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-589
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-65
US-PATENT-CLASS-357-67
US-PATENT-CLASS-427-88
US-PATENT-4,163,678

N79-31753* c 44 ..... NASA-CASE-NPO-14467-1
US-PATENT-APPL-SN-946994
US-PATENT-CLASS-136-89PC
US-PATENT-4,162,928

N79-33316* c 27 ..... NASA-CASE-LAR-12054-1
US-PATENT-APPL-SN-839963
US-PATENT-CLASS-264-137
US-PATENT-CLASS-428-474
US-PATENT-CLASS-528-229
US-PATENT-4,166,170

N79-33392* c 33 ..... NASA-CASE-XMF-04494-1
US-PATENT-APPL-SN-547643
US-PATENT-CLASS-200-83
US-PATENT-3,378,657

N79-33393* c 33 ..... NASA-CASE-XMS-01244-1
US-PATENT-APPL-SN-20370
US-PATENT-CLASS-200-114
US-PATENT-3,123,692

N79-33449* c 35 ..... NASA-CASE-XGS-01245-1
US-PATENT-APPL-SN-134619
US-PATENT-CLASS-338-18
US-PATENT-3,119,086

N79-33450* c 35 ..... NASA-CASE-XGS-01293-1
US-PATENT-APPL-SN-150690
US-PATENT-CLASS-73-400
US-PATENT-3,190,124

N79-33467* c 37 ..... NASA-CASE-XMS-01077-1
US-PATENT-APPL-SN-228049
US-PATENT-CLASS-312-319
US-PATENT-3,123,418

N79-33468* c 37 ..... NASA-CASE-HQN-00573-1
US-PATENT-APPL-SN-129379
US-PATENT-CLASS-137-14
US-PATENT-3,134,389

N79-33469* c 37 ..... NASA-CASE-XGS-01286-1
US-PATENT-APPL-SN-142583
US-PATENT-CLASS-251-172
US-PATENT-3,233,862

N79-34011* c 74 ..... NASA-CASE-NPO-14066-1
US-PATENT-APPL-SN-827464
US-PATENT-CLASS-250-216
US-PATENT-CLASS-250-551
US-PATENT-4,166,959

N80-10278* c 20 ..... NASA-CASE-MFS-23642-1
US-PATENT-APPL-SN-923758
US-PATENT-CLASS-137-177
US-PATENT-CLASS-137-209
US-PATENT-CLASS-137-574
US-PATENT-CLASS-137-576
US-PATENT-CLASS-137-590
US-PATENT-CLASS-244-135R
US-PATENT-4,168,718

N80-10358* c 27 ..... NASA-CASE-MSC-14903-2
US-PATENT-APPL-SN-706424
US-PATENT-APPL-SN-907435
US-PATENT-CLASS-260-926
US-PATENT-4,092,466
US-PATENT-4,168,287

N80-10374* c 28 ..... NASA-CASE-NPO-13849-1
NASA-CASE-NPO-13907-1
US-PATENT-APPL-SN-668783
US-PATENT-CLASS-123-DIG.12
US-PATENT-CLASS-123-179R
US-PATENT-CLASS-123-3
US-PATENT-CLASS-23-288R
US-PATENT-CLASS-423-650
US-PATENT-CLASS-48-DIG.8
US-PATENT-CLASS-48-10-3
US-PATENT-CLASS-48-102A
US-PATENT-CLASS-48-107
US-PATENT-CLASS-48-117
US-PATENT-CLASS-48-61
US-PATENT-CLASS-60-300
US-PATENT-CLASS-60-606
US-PATENT-4,033,133

N80-10494* c 37 ..... NASA-CASE-NPO-14384-1
US-PATENT-APPL-SN-880728
US-PATENT-CLASS-210-186
US-PATENT-CLASS-210-340
US-PATENT-CLASS-239-102
US-PATENT-CLASS-239-302
US-PATENT-CLASS-422-187
US-PATENT-CLASS-422-199
US-PATENT-CLASS-422-208
US-PATENT-CLASS-422-235
US-PATENT-CLASS-422-242
US-PATENT-CLASS-423-350
US-PATENT-4,169,129

N80-10507* c 39 ..... NASA-CASE-NPO-14192-1
US-PATENT-APPL-SN-830562
US-PATENT-CLASS-181-102
US-PATENT-CLASS-181-105
US-PATENT-CLASS-367-26
US-PATENT-CLASS-467-28
US-PATENT-4,168,483

N80-10709* c 46 ..... NASA-CASE-NPO-14231-1
US-PATENT-APPL-SN-903019
US-PATENT-CLASS-175-78
US-PATENT-CLASS-73-155
US-PATENT-4,167,111

N80-10799* c 54 ..... NASA-CASE-MSC-16182-1
US-PATENT-APPL-SN-780938
US-PATENT-CLASS-128-142R
US-PATENT-CLASS-128-191R
US-PATENT-CLASS-128-212
US-PATENT-4,168,706

N80-14107* c 05 ..... NASA-CASE-ARC-11106-1
US-PATENT-APPL-SN-831633
US-PATENT-CLASS-415-199
US-PATENT-CLASS-416-228
US-PATENT-CLASS-416-238
US-PATENT-4,168,939

N80-14183* c 18 ..... NASA-CASE-GSC-12331-1
US-PATENT-APPL-SN-943088
US-PATENT-CLASS-343-880
US-PATENT-CLASS-343-883
US-PATENT-4,176,360

N80-14188* c 20 ..... NASA-CASE-XLE-02062-1
US-PATENT-APPL-SN-545793
US-PATENT-CLASS-60-203
US-PATENT-CLASS-60-259
US-PATENT-4,171,615

N80-14229* c 26 ..... NASA-CASE-NPO-14474-1
US-PATENT-APPL-SN-918537
US-PATENT-CLASS-423-149
US-PATENT-CLASS-423-293
US-PATENT-CLASS-423-348
US-PATENT-CLASS-423-417
US-PATENT-CLASS-423-625
US-PATENT-4,172,883

N80-14281* c 32 ..... NASA-CASE-NPO-13830-1
US-PATENT-APPL-SN-703905
US-PATENT-APPL-SN-834257
US-PATENT-CLASS-333-81R
US-PATENT-CLASS-343-18A
US-PATENT-CLASS-343-909
US-PATENT-4,164,718

N80-14330* c 33 ..... NASA-CASE-NPO-10857-1
US-PATENT-APPL-SN-888362
US-PATENT-CLASS-315-145
US-PATENT-CLASS-315-260
US-PATENT-CLASS-315-334
US-PATENT-3,635,537

N80-14332* c 33 ..... NASA-CASE-NPO-14350-1
US-PATENT-APPL-SN-921627
US-PATENT-CLASS-250-310
US-PATENT-CLASS-250-492A
US-PATENT-CLASS-324-158T
US-PATENT-4,172,228

N80-14371* c 35 ..... NASA-CASE-LAR-11690-1
US-PATENT-APPL-SN-928129
US-PATENT-CLASS-73-655
US-PATENT-CLASS-73-661
US-PATENT-4,171,645

N80-14384* c 36 ..... NASA-CASE-GSC-12237-1
US-PATENT-APPL-SN-837795
US-PATENT-CLASS-331-94.5C
US-PATENT-CLASS-331-94.5P
US-PATENT-4,173,001

N80-14395* c 37 ..... NASA-CASE-XNP-08835-1
US-PATENT-APPL-SN-534931
US-PATENT-CLASS-204-224
US-PATENT-3,352,774

N80-14397* c 37 ..... NASA-CASE-MFS-23284-1
US-PATENT-APPL-SN-753103
US-PATENT-CLASS-204-180G
US-PATENT-CLASS-204-299R
US-PATENT-4,040,940

N80-14398* c 37 ..... NASA-CASE-GSC-12322-1
US-PATENT-APPL-SN-907436
US-PATENT-CLASS-244-161
US-PATENT-CLASS-269-156
US-PATENT-CLASS-294-113
US-PATENT-CLASS-294-86R
US-PATENT-CLASS-414-1
US-PATENT-4,173,324

N80-14423* c 43 ..... NASA-CASE-MFS-23720-2
US-PATENT-APPL-SN-848421
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-82
US-PATENT-4,157,655

N80-14472* c 44 ..... NASA-CASE-LEW-12586-1
US-PATENT-APPL-SN-916655
US-PATENT-CLASS-307-63
US-PATENT-CLASS-307-66
US-PATENT-CLASS-323-15
US-PATENT-CLASS-323-19
US-PATENT-4,175,249

N80-14473* c 44 ..... NASA-CASE-MFS-23727-1
US-PATENT-APPL-SN-856465
US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-442
US-PATENT-CLASS-350-295
US-PATENT-CLASS-350-296
US-PATENT-4,173,397

N80-14474* c 44 ..... NASA-CASE-NPO-13652-3

US-PATENT-APPL-SN-809890
US-PATENT-APPL-SN-891358
US-PATENT-CLASS-136-89P
US-PATENT-CLASS-29-572
US-PATENT-CLASS-29-588
US-PATENT-CLASS-29-627
US-PATENT-4,133,697
US-PATENT-4,173,820

N80-14579* c 45 ..... NASA-CASE-NPO-14340-1
US-PATENT-APPL-SN-946992
US-PATENT-CLASS-210-57
US-PATENT-CLASS-210-63Z
US-PATENT-CLASS-422-9
US-PATENT-4,172,786

N80-14603* c 46 ..... NASA-CASE-NPO-14124-1
US-PATENT-APPL-SN-863024
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-343-112D
US-PATENT-4,170,776

N80-14684* c 52 ..... NASA-CASE-LEW-12955-1
US-PATENT-APPL-SN-829318
US-PATENT-CLASS-128-276
US-PATENT-4,157,718

N80-14687* c 52 ..... NASA-CASE-NPO-14101-1
US-PATENT-APPL-SN-772434
US-PATENT-CLASS-210-22
US-PATENT-CLASS-210-321B
US-PATENT-4,094,775

N80-14877* c 72 ..... NASA-CASE-NPO-14078-1
US-PATENT-APPL-SN-856466
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-423P
US-PATENT-4,158,775

N80-16116* c 25 ..... NASA-CASE-ARC-11107-1
US-PATENT-APPL-SN-883961
US-PATENT-CLASS-521-124
US-PATENT-CLASS-521-125
US-PATENT-CLASS-521-127
US-PATENT-CLASS-521-157
US-PATENT-CLASS-528-73
US-PATENT-4,177,333

N80-16158* c 27 ..... NASA-CASE-LAR-12099-1
US-PATENT-APPL-SN-906299
US-PATENT-CLASS-528-207
US-PATENT-CLASS-528-208
US-PATENT-4,180,648

N80-16163*# c 27 ..... NASA-CASE-NPO-14021-2
US-PATENT-APPL-SN-106188

N80-16261*# c 32 ..... NASA-CASE-NPO-14362-1
US-PATENT-APPL-SN-106118

N80-16321* c 36 ..... NASA-CASE-LAR-12176-1
US-PATENT-APPL-SN-929083
US-PATENT-CLASS-332-751
US-PATENT-CLASS-350-359
US-PATENT-CLASS-356-243
US-PATENT-CLASS-356-28
US-PATENT-4,176,950

N80-16452* c 44 ..... NASA-CASE-MFS-23518-3
US-PATENT-APPL-SN-829390
US-PATENT-APPL-SN-910793
US-PATENT-CLASS-126-417
US-PATENT-CLASS-126-901
US-PATENT-CLASS-428-629
US-PATENT-CLASS-428-650
US-PATENT-CLASS-428-658
US-PATENT-CLASS-428-675
US-PATENT-CLASS-428-680
US-PATENT-4,104,134
US-PATENT-4,177,325

N80-16714* c 51 ..... NASA-CASE-MSC-16260-1
US-PATENT-APPL-SN-876440
US-PATENT-CLASS-23-927
US-PATENT-CLASS-422-52
US-PATENT-CLASS-435-34
US-PATENT-4,176,007

N80-16715* c 51 ..... NASA-CASE-MFS-23883-1
US-PATENT-APPL-SN-017668
US-PATENT-CLASS-204-180R
US-PATENT-CLASS-204-299R
US-PATENT-CLASS-424-12
US-PATENT-4,181,589

N80-16725* c 52 ..... NASA-CASE-NPO-14092-1
US-PATENT-APPL-SN-807597
US-PATENT-CLASS-128-DIG.9
US-PATENT-CLASS-128-348
US-PATENT-CLASS-128-6
US-PATENT-CLASS-138-103
US-PATENT-CLASS-138-133
US-PATENT-CLASS-138-33
US-PATENT-CLASS-219-201
US-PATENT-CLASS-219-522
US-PATENT-4,176,662

N80-18036* c 06 ..... NASA-CASE-FRC-11009-1
US-PATENT-APPL-SN-910708
US-PATENT-CLASS-340-177VA
US-PATENT-CLASS-73-188
US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-212
US-PATENT-4,184,149

N80-18039* c 07 ..... NASA-CASE-LEW-12971-1
US-PATENT-APPL-SN-858936
US-PATENT-CLASS-60-240
US-PATENT-CLASS-60-39.03
US-PATENT-CLASS-60-39.27
US-PATENT-4,184,327

N80-18097* c 20 ..... NASA-CASE-MSC-18179-1
US-PATENT-APPL-SN-931218
US-PATENT-CLASS-60-632
US-PATENT-4,183,217

N80-18231* c 31 ..... NASA-CASE-NPO-14382-1
US-PATENT-APPL-SN-891373
US-PATENT-CLASS-261-118
US-PATENT-CLASS-422-224
US-PATENT-CLASS-423-350
US-PATENT-4,188,368

N80-18252* c 32 ..... NASA-CASE-NPO-14152-1
US-PATENT-APPL-SN-899828
US-PATENT-CLASS-178-58R
US-PATENT-CLASS-179-15BA
US-PATENT-4,187,394

N80-18253* c 32 ..... NASA-CASE-NPO-14328-1
NASA-CASE-NPO-14579-1
NASA-CASE-NPO-14590-1
US-PATENT-APPL-SN-956160
US-PATENT-CLASS-325-305
US-PATENT-CLASS-325-307
US-PATENT-CLASS-325-419
US-PATENT-4,186,347

N80-18285* c 33 ..... NASA-CASE-NPO-14229-1
US-PATENT-APPL-SN-835419
US-PATENT-APPL-SN-949886
US-PATENT-CLASS-200-153S
US-PATENT-CLASS-200-304
US-PATENT-CLASS-333-262
US-PATENT-4,187,416

N80-18286* c 33 ..... NASA-CASE-GSC-12347-1
US-PATENT-APPL-SN-868249
US-PATENT-CLASS-174-142
US-PATENT-CLASS-174-73R
US-PATENT-4,185,164

N80-18287* c 33 ..... NASA-CASE-NPO-14224-1
US-PATENT-APPL-SN-951829
US-PATENT-CLASS-310-306
US-PATENT-CLASS-343-100R
US-PATENT-CLASS-343-100ST
US-PATENT-4,187,506

N80-18357* c 35 ..... NASA-CASE-NPO-14501-1
US-PATENT-APPL-SN-918535
US-PATENT-CLASS-264-40.4
US-PATENT-CLASS-73-343R
US-PATENT-CLASS-73-56
US-PATENT-4,185,493

N80-18358* c 35 ..... NASA-CASE-LAR-12269-1
US-PATENT-APPL-SN-934576
US-PATENT-CLASS-73-4R
US-PATENT-CLASS-73-40
US-PATENT-4,182,158

N80-18359* c 35 ..... NASA-CASE-GSC-12219-1
US-PATENT-APPL-SN-891356
US-PATENT-CLASS-325-363
US-PATENT-CLASS-343-100ME
US-PATENT-CLASS-356-216
US-PATENT-CLASS-73-355R
US-PATENT-4,178,100

N80-18364*# c 35 ..... NASA-CASE-NPO-13606-2
US-PATENT-APPL-SN-065676

N80-18372* c 36 ..... NASA-CASE-NPO-14254-1
US-PATENT-APPL-SN-876432
US-PATENT-CLASS-330-4
US-PATENT-CLASS-331-94
US-PATENT-CLASS-333-24R
US-PATENT-4,187,470

N80-18393* c 37 ..... NASA-CASE-ARC-11157-1
US-PATENT-APPL-SN-935827
US-PATENT-CLASS-220-423
US-PATENT-CLASS-220-445
US-PATENT-CLASS-220-901
US-PATENT-4,184,609

N80-18400*# c 37 ..... NASA-CASE-NPO-12131-3
US-PATENT-APPL-SN-096255

N80-18498* c 43 ..... NASA-CASE-LAR-12344-1
US-PATENT-APPL-SN-945041
US-PATENT-CLASS-343-18B
US-PATENT-CLASS-343-18D
US-PATENT-CLASS-343-5CM
US-PATENT-CLASS-343-5W
US-PATENT-4,184,155

N80-18550* c 44 ..... NASA-CASE-NPO-14303-1
NASA-CASE-NPO-14305-1
US-PATENT-APPL-SN-928133
US-PATENT-CLASS-156-104
US-PATENT-CLASS-156-278
US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-303
US-PATENT-CLASS-156-312
US-PATENT-4,184,903

N80-18551* c 44 ..... NASA-CASE-NPO-14096-1
US-PATENT-APPL-SN-928128
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-404
US-PATENT-4,184,111

N80-18552* c 44 ..... NASA-CASE-LAR-11999-1
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US-PATENT-CLASS-250-231SE
US-PATENT-4,184,072

N80-18667* c 48 ..... NASA-CASE-MFS-23862-1
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US-PATENT-CLASS-73-170A
US-PATENT-4,184,368

N80-18690* c 52 ..... NASA-CASE-LEW-12723-1
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US-PATENT-CLASS-128-760
US-PATENT-4,184,491

N80-18691* c 52 ..... NASA-CASE-ARC-11120-1
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US-PATENT-CLASS-128-903
US-PATENT-CLASS-73-724
US-PATENT-4,186,749

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US-PATENT-CLASS-269-21
US-PATENT-CLASS-51-235
US-PATENT-CLASS-83-152
US-PATENT-CLASS-83-870
US-PATENT-4,184,472

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US-PATENT-CLASS-73-205L
US-PATENT-4,188,823

N80-20334* c 25 ..... NASA-CASE-NPO-14079-1
US-PATENT-APPL-SN-958573
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US-PATENT-CLASS-250-308
US-PATENT-4,194,115

N80-20402* c 28 ..... NASA-CASE-LEW-12081-2
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US-PATENT-APPL-SN-837794
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US-PATENT-CLASS-423-648R
US-PATENT-4,193,827

N80-20448* c 32 ..... NASA-CASE-NPO-14480-1
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US-PATENT-CLASS-325-4
US-PATENT-CLASS-325-8
US-PATENT-CLASS-325-9
US-PATENT-4,189,675

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US-PATENT-CLASS-429-105
US-PATENT-CLASS-429-107
US-PATENT-CLASS-429-109
US-PATENT-4,192,910

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US-PATENT-CLASS-310-311
US-PATENT-CLASS-310-327
US-PATENT-CLASS-310-334
US-PATENT-CLASS-310-360
US-PATENT-4,195,244

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US-PATENT-CLASS-219-85CA
US-PATENT-CLASS-219-85CM
US-PATENT-CLASS-219-85R
US-PATENT-CLASS-338-2
US-PATENT-4,195,279

N80-20563* c 35 ..... NASA-CASE-NPO-14093-1
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US-PATENT-CLASS-356-346
US-PATENT-4,193,693

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US-PATENT-CLASS-149-37
US-PATENT-CLASS-220-429
US-PATENT-4,193,388

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US-PATENT-CLASS-126-434
US-PATENT-CLASS-126-437
US-PATENT-CLASS-165-32
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US-PATENT-CLASS-350-25
US-PATENT-CLASS-350-285
US-PATENT-CLASS-356-150
US-PATENT-CLASS-356-152
US-PATENT-4,189,234
N80-21140* c 74 ..... NASA-CASE-GSC-12357-1
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US-PATENT-CLASS-250-280
US-PATENT-CLASS-350-162R
US-PATENT-CLASS-356-334
US-PATENT-4,192,994
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US-PATENT-CLASS-244-170
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US-PATENT-CLASS-55-67
US-PATENT-CLASS-55-68
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US-PATENT-CLASS-75-178R
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US-PATENT-CLASS-210-500M
US-PATENT-CLASS-427-245
US-PATENT-CLASS-427-41
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US-PATENT-CLASS-23-302R
US-PATENT-CLASS-23-302T
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US-PATENT-CLASS-340-604
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US-PATENT-CLASS-137-625.4
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US-PATENT-CLASS-251-86
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US-PATENT-CLASS-219-161
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US-PATENT-CLASS-228-222
US-PATENT-CLASS-228-44.1R
US-PATENT-CLASS-269-287
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US-PATENT-CLASS-73-82
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US-PATENT-CLASS-128-690
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US-PATENT-CLASS-65-61
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US-PATENT-CLASS-427-40
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US-PATENT-CLASS-428-474
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US-PATENT-APPL-SN-907479
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US-PATENT-CLASS-525-336
US-PATENT-CLASS-525-340
US-PATENT-CLASS-525-374
US-PATENT-CLASS-525-375
US-PATENT-CLASS-526-261
US-PATENT-CLASS-526-275
US-PATENT-CLASS-526-276
US-PATENT-CLASS-526-278
US-PATENT-CLASS-528-481
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NASA-CASE-NPO-14527-1
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US-PATENT-CLASS-350-6.6
US-PATENT-CLASS-356-28.5
US-PATENT-4,201,468
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US-PATENT-CLASS-156-605
US-PATENT-CLASS-156-617SP
US-PATENT-CLASS-252-62.3E
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US-PATENT-CLASS-60-746
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US-PATENT-CLASS-156-285
US-PATENT-CLASS-260-17.2
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US-PATENT-CLASS-264-119
US-PATENT-CLASS-264-124
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US-PATENT-CLASS-204-159.19
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US-PATENT-CLASS-8-DIG.18
US-PATENT-CLASS-8-115.5
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US-PATENT-APPL-SN-956529
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US-PATENT-CLASS-250-353
US-PATENT-CLASS-356-328
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US-PATENT-APPL-SN-931090
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US-PATENT-CLASS-415-196
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US-PATENT-CLASS-73-781
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US-PATENT-CLASS-313-363
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US-PATENT-CLASS-266-274
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US-PATENT-CLASS-149-20
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US-PATENT-CLASS-343-844
US-PATENT-CLASS-343-854
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US-PATENT-CLASS-250-491
US-PATENT-CLASS-250-513
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US-PATENT-CLASS-277-193
US-PATENT-CLASS-277-224
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US-PATENT-CLASS-343-786

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US-PATENT-CLASS-83-820
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US-PATENT-CLASS-290-53
US-PATENT-CLASS-310-30
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US-PATENT-APPL-SN-696374
US-PATENT-CLASS-148-1.5
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-52
US-PATENT-CLASS-357-91
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US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-617SP
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US-PATENT-CLASS-239-265.33
US-PATENT-CLASS-60-264
US-PATENT-4,214,703
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US-PATENT-APPL-SN-803822
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US-PATENT-APPL-SN-374810
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US-PATENT-APPL-SN-933186
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US-PATENT-CLASS-156-292
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US-PATENT-CLASS-204-159.14
US-PATENT-CLASS-264-212
US-PATENT-CLASS-264-22
US-PATENT-CLASS-427-44
US-PATENT-CLASS-428-500
US-PATENT-CLASS-429-139
US-PATENT-4,218,280
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US-PATENT-CLASS-236-13
US-PATENT-CLASS-236-44C
US-PATENT-CLASS-236-49
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US-PATENT-CLASS-367-27
US-PATENT-CLASS-367-36
US-PATENT-CLASS-367-57
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US-PATENT-CLASS-343-830
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NASA-CASE-NPO-14640-1
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US-PATENT-CLASS-333-252
US-PATENT-CLASS-333-99S
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NASA-CASE-NPO-14430-1
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US-PATENT-CLASS-74-425
US-PATENT-CLASS-74-661
US-PATENT-CLASS-74-665C
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US-PATENT-CLASS-198-848
US-PATENT-CLASS-474-205
US-PATENT-4,215,590
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US-PATENT-CLASS-313-362
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US-PATENT-CLASS-356-72
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US-PATENT-APPL-SN-764245
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US-PATENT-APPL-SN-915050
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US-PATENT-CLASS-136-291
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US-PATENT-CLASS-428-413
US-PATENT-CLASS-428-480
US-PATENT-CLASS-428-902
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US-PATENT-CLASS-528-362
US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
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US-PATENT-CLASS-260-2.1E
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US-PATENT-APPL-SN-785279
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US-PATENT-CLASS-156-163
US-PATENT-CLASS-156-212
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US-PATENT-CLASS-156-331
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US-PATENT-APPL-SN-839963
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US-PATENT-CLASS-428-473.5
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US-PATENT-APPL-SN-676432
US-PATENT-APPL-SN-837794
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US-PATENT-CLASS-423-648R
US-PATENT-CLASS-44-7R
US-PATENT-CLASS-55-2
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US-PATENT-CLASS-128-DIG.9
US-PATENT-CLASS-128-204.18
US-PATENT-CLASS-128-207.14
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N81-14613* c 52 ..... NASA-CASE-ARC-11118-2
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US-PATENT-CLASS-244-130
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US-PATENT-CLASS-73-505
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US-PATENT-CLASS-73-178R
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US-PATENT-CLASS-228-174
US-PATENT-CLASS-228-190
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US-PATENT-CLASS-260-2.2R
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US-PATENT-CLASS-528-423
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US-PATENT-CLASS-260-326S
US-PATENT-CLASS-260-37EP
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US-PATENT-CLASS-528-322
US-PATENT-CLASS-538-117
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US-PATENT-CLASS-201-25
US-PATENT-CLASS-201-8
US-PATENT-CLASS-44-50
US-PATENT-CLASS-44-62
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US-PATENT-CLASS-528-401
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US-PATENT-CLASS-331-48
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US-PATENT-APPL-SN-008208
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N81-17433* c 37 ..... NASA-CASE-ARC-11251-1
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US-PATENT-CLASS-251-339
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US-PATENT-CLASS-244-49
US-PATENT-4,240,601
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US-PATENT-CLASS-126-419
US-PATENT-CLASS-60-524
US-PATENT-CLASS-60-641
US-PATENT-4,236,383
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US-PATENT-CLASS-362-241
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US-PATENT-CLASS-74-519
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US-PATENT-APPL-SN-909235
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US-PATENT-CLASS-364-431
US-PATENT-CLASS-60-39.24
US-PATENT-4,249,238
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US-PATENT-APPL-SN-909608
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US-PATENT-CLASS-60-238
US-PATENT-CLASS-60-239
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US-PATENT-APPL-SN-727503
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US-PATENT-CLASS-244-87
US-PATENT-4,236,684
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US-PATENT-CLASS-526-88
US-PATENT-4,247,434
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US-PATENT-CLASS-210-24
US-PATENT-CLASS-260-2.1E
US-PATENT-CLASS-260-2.2R
US-PATENT-CLASS-264-41
US-PATENT-3,944,485
N81-19296* c 27 ..... NASA-CASE-LEW-12933-1
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US-PATENT-CLASS-260-33.4R
US-PATENT-CLASS-427-221
US-PATENT-CLASS-427-379
US-PATENT-CLASS-528-353
US-PATENT-4,244,853

N81-19343* c 31 ..... NASA-CASE-GSC-12513-1
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US-PATENT-CLASS-109-58.5
US-PATENT-CLASS-220-82R
US-PATENT-CLASS-220-89A
US-PATENT-CLASS-49-171
US-PATENT-4,245,566

N81-19389* c 33 ..... NASA-CASE-NPO-14297-1
US-PATENT-APPL-SN-938299
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US-PATENT-CLASS-156-608
US-PATENT-CLASS-219-10.49R
US-PATENT-CLASS-219-10.67
US-PATENT-CLASS-422-246
US-PATENT-CLASS-422-249
US-PATENT-CLASS-432-264
US-PATENT-4,242,553

N81-19392* c 33 ..... NASA-CASE-GSC-12360-1
US-PATENT-APPL-SN-041164
US-PATENT-CLASS-363-101
US-PATENT-CLASS-363-21
US-PATENT-4,245,286

N81-19393* c 33 ..... NASA-CASE-NPO-14505-1
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US-PATENT-CLASS-363-36
US-PATENT-CLASS-363-40
US-PATENT-CLASS-363-47
US-PATENT-4,245,288

N81-19426* c 35 ..... NASA-CASE-MFS-23923-1
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US-PATENT-CLASS-73-190R
US-PATENT-4,248,083

N81-19427* c 35 ..... NASA-CASE-MSC-16370-1
US-PATENT-APPL-SN-061556
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US-PATENT-CLASS-329-50
US-PATENT-CLASS-375-1
US-PATENT-CLASS-375-104
US-PATENT-CLASS-375-34
US-PATENT-CLASS-375-99
US-PATENT-4,241,312

N81-19455* c 37 ..... NASA-CASE-LEW-12982-1
US-PATENT-APPL-SN-929084
US-PATENT-CLASS-204-192E
US-PATENT-CLASS-228-116
US-PATENT-CLASS-228-205
US-PATENT-4,245,768

N81-19558* c 44 ..... NASA-CASE-NPO-14670-1
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US-PATENT-CLASS-136-258
US-PATENT-CLASS-252-62.3E
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-59
US-PATENT-CLASS-357-63
US-PATENT-4,249,957

N81-19896* c 74 ..... NASA-CASE-NPO-11337-1
NASA-CASE-NPO-11575-1
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US-PATENT-APPL-SN-276599
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US-PATENT-CLASS-340-146.3S
US-PATENT-CLASS-340-146.3Y
US-PATENT-3,845,466

N81-19898* c 74 ..... NASA-CASE-NPO-12087-1
US-PATENT-APPL-SN-095217
US-PATENT-CLASS-250-83.6R
US-PATENT-3,704,284

N81-20352*# c 33 ..... NASA-CASE-NPO-13970-1
US-PATENT-APPL-SN-023484
US-PATENT-CLASS-318-138
US-PATENT-CLASS-318-254
US-PATENT-CLASS-318-439
US-PATENT-4,249,116

N81-20703* c 52 ..... NASA-CASE-NPO-14329-1
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US-PATENT-CLASS-128-642
US-PATENT-CLASS-128-774
US-PATENT-CLASS-73-141A
US-PATENT-4,249,417

N81-21047* c 04 ..... NASA-CASE-ARC-11257-1
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US-PATENT-CLASS-73-490
US-PATENT-CLASS-73-504
US-PATENT-4,244,215

N81-22280*# c 33 ..... NASA-CASE-MFS-24368-3
US-PATENT-APPL-SN-243683

N81-22344*# c 36 ..... NASA-CASE-GSC-12609-1
US-PATENT-APPL-SN-218586

N81-22360*# c 37 ..... NASA-CASE-LEW-12445-1
US-PATENT-APPL-SN-238887

N81-24106* c 08 ..... NASA-CASE-LAR-12268-1
US-PATENT-APPL-SN-015996
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US-PATENT-CLASS-244-195
US-PATENT-CLASS-318-584
US-PATENT-CLASS-364-434
US-PATENT-4,261,537

N81-24256* c 27 ..... NASA-CASE-ARC-11253-3
US-PATENT-APPL-SN-028301
US-PATENT-APPL-SN-145283
US-PATENT-CLASS-260-465.5R
US-PATENT-CLASS-528-310
US-PATENT-CLASS-564-229
US-PATENT-4,269,787

N81-24257* c 27 ..... NASA-CASE-LEW-13135-2
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US-PATENT-APPL-SN-971475
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US-PATENT-CLASS-429-139
US-PATENT-CLASS-429-249
US-PATENT-CLASS-429-253
US-PATENT-CLASS-429-27
US-PATENT-CLASS-429-28
US-PATENT-CLASS-525-61
US-PATENT-4,262,067

N81-24258* c 27 ..... NASA-CASE-NPO-10424-1
US-PATENT-APPL-SN-692636
US-PATENT-CLASS-260-37
US-PATENT-3,651,008

N81-24280* c 28 ..... NASA-CASE-MSC-16394-1
US-PATENT-APPL-SN-161255
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-252
US-PATENT-CLASS-204-266
US-PATENT-CLASS-204-290F
US-PATENT-CLASS-204-290R
US-PATENT-CLASS-204-291
US-PATENT-4,263,112

N81-24338* c 33 ..... NASA-CASE-NPO-14617-1
US-PATENT-APPL-SN-051269
US-PATENT-CLASS-330-8
US-PATENT-4,262,259

N81-24422* c 36 ..... NASA-CASE-LAR-12177-1
US-PATENT-APPL-SN-027558
US-PATENT-CLASS-356-28.5
US-PATENT-CLASS-356-356
US-PATENT-CLASS-356-358
US-PATENT-4,255,048

N81-24442* c 37 ..... NASA-CASE-LEW-12991-1
US-PATENT-APPL-SN-961832
US-PATENT-CLASS-277-96
US-PATENT-4,260,166

N81-24443* c 37 ..... NASA-CASE-LAR-11695-2
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US-PATENT-APPL-SN-893865
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US-PATENT-CLASS-152-353G
US-PATENT-CLASS-152-353R
US-PATENT-CLASS-152-379.4
US-PATENT-CLASS-244-103R
US-PATENT-CLASS-244-130
US-PATENT-4,267,992

N81-24519* c 44 ..... NASA-CASE-LEW-12441-3
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US-PATENT-APPL-SN-856462
US-PATENT-CLASS-239-127.1
US-PATENT-CLASS-60-204
US-PATENT-CLASS-60-267
US-PATENT-4,199,937
US-PATENT-4,245,469

N81-24520* c 44 ..... NASA-CASE-MFS-23999-1
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US-PATENT-CLASS-250-203R
US-PATENT-CLASS-250-209
US-PATENT-4,262,195

N81-24521* c 44 ..... NASA-CASE-LEW-12918-1
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US-PATENT-CLASS-429-160
US-PATENT-CLASS-429-164
US-PATENT-CLASS-429-94
US-PATENT-4,262,064

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US-PATENT-CLASS-4-144.3
US-PATENT-4,246,901

N81-24724* c 54 ..... NASA-CASE-KSC-11085-1
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US-PATENT-CLASS-422-109
US-PATENT-CLASS-422-27
US-PATENT-CLASS-422-3
US-PATENT-CLASS-422-30
US-PATENT-CLASS-422-34
US-PATENT-4,250,143

N81-24779* c 62 ..... NASA-CASE-KSC-11048-1
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US-PATENT-4,254,464

N81-24900* c 74 ..... NASA-CASE-GSC-12528-1
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US-PATENT-CLASS-250-483
US-PATENT-4,262,206

N81-25159* c 25 ..... NASA-CASE-NPO-15102-1
US-PATENT-APPL-SN-154726
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US-PATENT-CLASS-356-432
US-PATENT-4,253,769

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US-PATENT-CLASS-428-632
US-PATENT-CLASS-428-678
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US-PATENT-CLASS-428-680
US-PATENT-4,255,495

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US-PATENT-APPL-SN-956168
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US-PATENT-CLASS-430-325
US-PATENT-CLASS-430-329
US-PATENT-CLASS-430-330
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US-PATENT-CLASS-403-171
US-PATENT-CLASS-428-902
US-PATENT-CLASS-52-309.1
US-PATENT-CLASS-52-648
US-PATENT-CLASS-52-726
US-PATENT-4,259,821

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US-PATENT-4,259,825

N81-25278* c 32 ..... NASA-CASE-NPO-14588-1
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US-PATENT-CLASS-343-772
US-PATENT-CLASS-343-781R
US-PATENT-CLASS-343-786
US-PATENT-4,258,366

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US-PATENT-4,255,929

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US-PATENT-CLASS-356-216
US-PATENT-CLASS-356-234
US-PATENT-CLASS-356-32
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US-PATENT-CLASS-128-1R
US-PATENT-CLASS-128-346
US-PATENT-CLASS-137-493
US-PATENT-4,256,093

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US-PATENT-APPL-SN-798976
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US-PATENT-CLASS-244-117A

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US-PATENT-CLASS-60-267
US-PATENT-CLASS-60-730
US-PATENT-CLASS-62-DIG.5
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US-PATENT-CLASS-244-2
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US-PATENT-CLASS-371-25
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US-PATENT-CLASS-361-334
US-PATENT-CLASS-73-361
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US-PATENT-APPL-SN-672219
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US-PATENT-CLASS-528-4
US-PATENT-CLASS-528-6
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US-PATENT-CLASS-428-920
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US-PATENT-CLASS-52-632
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US-PATENT-CLASS-318-810
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US-PATENT-CLASS-361-91
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US-PATENT-CLASS-414-730
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US-PATENT-CLASS-204-195B
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US-PATENT-CLASS-435-5
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US-PATENT-CLASS-60-737
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US-PATENT-CLASS-364-566
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US-PATENT-CLASS-429-253
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US-PATENT-CLASS-429-28
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US-PATENT-CLASS-424-274
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US-PATENT-CLASS-356-346
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US-PATENT-CLASS-91-410
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US-PATENT-CLASS-375-1
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US-PATENT-CLASS-118-52
US-PATENT-CLASS-269-21
US-PATENT-CLASS-427-240
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US-PATENT-CLASS-74-89
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US-PATENT-CLASS-110-245
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US-PATENT-CLASS-110-266
US-PATENT-CLASS-122-4D
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N82-11634* c 45 ..... NASA-CASE-NPO-13877-1
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US-PATENT-CLASS-252-422
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US-PATENT-CLASS-118-500
US-PATENT-CLASS-134-137
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US-PATENT-CLASS-277-40
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US-PATENT-CLASS-239-601
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US-PATENT-CLASS-331-94.5P
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US-PATENT-CLASS-568-4

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US-PATENT-CLASS-343-9PS
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US-PATENT-CLASS-364-522
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US-PATENT-CLASS-73-379
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US-PATENT-CLASS-156-654
US-PATENT-CLASS-156-662
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US-PATENT-CLASS-244-173
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US-PATENT-CLASS-339-3R
US-PATENT-CLASS-339-5R
US-PATENT-CLASS-343-DIG2
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US-PATENT-CLASS-415-197
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US-PATENT-CLASS-423-447.7
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US-PATENT-CLASS-525-184
US-PATENT-CLASS-525-474
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US-PATENT-CLASS-322-95
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US-PATENT-CLASS-269-242
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US-PATENT-CLASS-423-649
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US-PATENT-CLASS-204-37R
US-PATENT-CLASS-204-56R
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US-PATENT-CASE-368-118
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US-PATENT-CASE-368-9
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US-PATENT-CLASS-55-202
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N83-29783*# c 43 ..... NASA-CASE-LAR-13053-1
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N83-29991*# c 52 ..... NASA-CASE-ARC-11264-2
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US-PATENT-CLASS-428-650
US-PATENT-CLASS-428-680
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US-PATENT-CLASS-264-9
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US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-214
US-PATENT-CLASS-65-22
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US-PATENT-CLASS-62-514R
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US-PATENT-CLASS-343-9PS
US-PATENT-CLASS-367-88
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US-PATENT-CLASS-315-4
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US-PATENT-CLASS-315-5.38
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US-PATENT-CLASS-318-803
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US-PATENT-4,394,610
N83-31954* c 33 ..... NASA-CASE-NPO-14940-1
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US-PATENT-CLASS-324-466
US-PATENT-CLASS-73-861.05
US-PATENT-4,338,568
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US-PATENT-CLASS-250-573
US-PATENT-CLASS-73-64.4
US-PATENT-4,391,129
N83-32026* c 35 ..... NASA-CASE-LAR-12728-1
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US-PATENT-CLASS-62-514 R
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US-PATENT-CLASS-104-290
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US-PATENT-CLASS-310-12
US-PATENT-4,387,935
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US-PATENT-CLASS-73-856
US-PATENT-CLASS-73-860
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US-PATENT-CLASS-310-306
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US-PATENT-CLASS-429-254
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US-PATENT-CLASS-136-249
US-PATENT-CLASS-357-30
US-PATENT-4,376,872
N83-32232* c 47 ..... NASA-CASE-NPO-14936-1
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US-PATENT-CLASS-250-203R
US-PATENT-CLASS-356-222
US-PATENT-4,355,896
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US-PATENT-CLASS-364-900
US-PATENT-4,394,726

N83-32515* c 71 ..... NASA-CASE-NPO-15453-1
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US-PATENT-CLASS-73-505
US-PATENT-4,393,708

N83-32516* c 71 ..... NASA-CASE-NPO-15522-1
US-PATENT-APPL-SN-303672
US-PATENT-CLASS-60-721
US-PATENT-CLASS-73-505
US-PATENT-4,393,706

N83-32577* c 74 ..... NASA-CASE-GSC-12614-1
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US-PATENT-CLASS-356-363
US-PATENT-4,395,123

N83-33882* c 06 ..... NASA-CASE-FRC-11043-1
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US-PATENT-CLASS-33-322
US-PATENT-CLASS-74-5.34
US-PATENT-4,387,513

N83-33884* c 07 ..... NASA-CASE-ARC-10812-1
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US-PATENT-CLASS-239-265.17
US-PATENT-CLASS-60-262
US-PATENT-CLASS-60-269
US-PATENT-CLASS-60-271
US-PATENT-4,372,110

N83-33950* c 24 ..... NASA-CASE-NPO-14987-1
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US-PATENT-CLASS-427-241
US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-375
US-PATENT-CLASS-428-392
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-903
US-PATENT-4, 359,503

N83-33977* c 25 ..... NASA-CASE-ARC-11326-1
US-PATENT-APPL-SN-178192
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US-PATENT-CLASS-423-419P
US-PATENT-CLASS-423-600
US-PATENT-CLASS-424-156
US-PATENT-4, 356,157

N83-34039* c 27 ..... NASA-CASE-GSC-12686-1
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US-PATENT-CLASS-427-322
US-PATENT-CLASS-427-340
US-PATENT-CLASS-427-352
US-PATENT-CLASS-427-400
US-PATENT-CLASS-427-407.1
US-PATENT-4,362,769

N83-34040* c 27 ..... NASA-CASE-LAR-12838-1
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US-PATENT-CLASS-526-259
US-PATENT-CLASS-526-285
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US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-229
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US-PATENT-4,375,536

N83-34041* c 27 ..... NASA-CASE-LAR-12858-1
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US-PATENT-CLASS-164-331.12
US-PATENT-CLASS-264-137
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-331.46
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-226
US-PATENT-4,398,021

N83-34043* c 27 ..... NASA-CASE-NPO-15202-1
US-PATENT-APPL-SN-233271
US-PATENT-CLASS-384-124
US-PATENT-CLASS-523-440
US-PATENT-CLASS-523-443
US-PATENT-4,395,503

N83-34073* c 31 ..... NASA-CASE-ARC-11246-1
US-PATENT-APPL-SN-136660
US-PATENT-CLASS-156-264
US-PATENT-CLASS-156-344
US-PATENT-CLASS-156-59
US-PATENT-CLASS-273-240
US-PATENT-CLASS-434-403
US-PATENT-CLASS-434-88
US-PATENT-4,385,949

N83-34189* c 33 ..... NASA-CASE-GSC-12566-1
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US-PATENT-CLASS-315-208
US-PATENT-CLASS-315-224
US-PATENT-CLASS-315-225
US-PATENT-CLASS-315-237
US-PATENT-CLASS-315-241R
US-PATENT-CLASS-372-25
US-PATENT-4,398,129

N83-34190* c 33 ..... NASA-CASE-MFS-25607-1
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US-PATENT-CLAS-361-90
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-806
US-PATENT-CLASS-361-100
US-PATENT-CLASS-363-54
US-PATENT-4,400,657

N83-34191* c 33 ..... NASA-CASE-GSC-12646-1
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US-PATENT-CLASS-330-289
US-PATENT-CLASS-330-310
US-PATENT-4,401,953

N83-34221* c 34 ..... NASA-CASE-LAR-12393-1
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US-PATENT-CLASS-165-12
US-PATENT-CLASS-165-61
US-PATENT-CLASS-165-80E
US-PATENT-CLASS-374-46
US-PATENT-CLASS-62-514R
US-PATENT-CLASS-62-62
US-PATENT-4,346,754

N83-34272* c 35 ..... NASA-CASE-ARC-11317-1
US-PATENT-APPL-SN-229231
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US-PATENT-CLASS-340-566
US-PATENT-4,374,378

N83-34304* c 36 ..... NASA-CASE-ARC-11312-1
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US-PATENT-CLASS-356-4
US-PATENT-CLASS-358-104
US-PATENT-CLASS-358-109
US-PATENT-CLASS-434-38
US-PATENT-CLASS-434-4
US-PATENT-4,391,514

N83-34323* c 37 ..... NASA-CASE-GSC-12726-1
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US-PATENT-CLASS-308-10
US-PATENT-4,381,375

N83-34448* c 44 ..... NASA-CASE-ARC-11164-1
US-PATENT-APPL-SN-308007
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US-PATENT-CLASS-428-312.6
US-PATENT-CLASS-428-325
US-PATENT-CLASS-428-427
US-PATENT-CLASS-428-428
US-PATENT-4,381,333

N83-34449* c 44 ..... NASA-CASE-LAR-12719-1
US-PATENT-APPL-SN-367134
US-PATENT-CLASS-126-901
US-PATENT-CLASS-204-33
US-PATENT-CLASS-204-35N
US-PATENT-4,397,716

N83-34796* c 76 ..... NASA-CASE-LEW-12582-1
US-PATENT-APPL-SN-397281
US-PATENT-CLASS-310-332
US-PATENT-CLASS-310-800
US-PATENT-CLASS-428-294
US-PATENT-CLASS-428-421
US-PATENT-CLASS-428-422
US-PATENT-4,400,642

N83-35176* c 31 ..... NASA-CASE-NPO-15070-1
US-PATENT-APPL-SN-403847
US-PATENT-CLASS-264-12
US-PATENT-CLASS-264-24
US-PATENT-CLASS-264-5
US-PATENT-CLASS-425-10
US-PATENT-CLASS-425-6
US-PATENT-CLASS-425-7
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-21.3
US-PATENT-CLASS-65-21.4
US-PATENT-CLASS-65-22
US-PATENT-4,400,191

N83-35177* c 31 ..... NASA-CASE-LEW-13450-1
US-PATENT-APPL-SN-328760
US-PATENT-CLASS-427-243
US-PATENT-CLASS-427-247
US-PATENT-CLASS-427-34
US-PATENT-CLASS-427-423
US-PATENT-4,402,992

N83-35227* c 33 ..... NASA-CASE-MFS-25209-1
US-PATENT-APPL-SN-291132
US-PATENT-CLASS-318-685
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-806
US-PATENT-4,401,934

N83-35307* c 34 ..... NASA-CASE-GSC-12812-1
US-PATENT-APPL-SN-434674
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-32
US-PATENT-4,402,358

N83-35338* c 35 ..... NASA-CASE-LEW-13934-1
US-PATENT-APPL-SN-212949
US-PATENT-CLASS-228-103
US-PATENT-CLASS-228-193
US-PATENT-CLASS-228-263.18
US-PATENT-CLASS-415-118
US-PATENT-4,402,447

N83-35350* c 36 ..... NASA-CASE-NPO-15201-1
US-PATENT-APPL-SN-246778
US-PATENT-CLASS-330-4
US-PATENT-CLASS-332-7.5
US-PATENT-CLASS-333-24.2
US-PATENT-4,399,415

N83-35781* c 71 ..... NASA-CASE-NPO-15334-1
US-PATENT-APPL-SN-341406
US-PATENT-CLASS-210-748
US-PATENT-CLASS-252-361
US-PATENT-CLASS-366-114
US-PATENT-CLASS-55-15
US-PATENT-CLASS-55-277
US-PATENT-CLASS-55-38
US-PATENT-CLASS-55-52
US-PATENT-CLASS-65-134
US-PATENT-4,398,925

N83-35888* c 76 ..... NASA-CASE-NPO-15530-1
US-PATENT-APPL-SN-364092
US-PATENT-CLASS-156-DIG.6
US-PATENT-CLASS-156-DIG.73
US-PATENT-CLASS-156-608
US-PATENT-4,401,505

N83-35992* c 01 ..... NASA-CASE-LAR-12624-1
US-PATENT-APPL-SN-259209
US-PATENT-CLASS-102-378
US-PATENT-CLASS-244-137P
US-PATENT-CLASS-89-1B
US-PATENT-4,407,468

N83-36029* c 07 ..... NASA-CASE-LEW-13142-1
US-PATENT-APPL-SN-132364
US-PATENT-CLASS-60-39.07
US-PATENT-4,404,793

N83-36118* c 25 ..... NASA-CASE-ARC-11252-1
US-PATENT-APPL-SN-317977
US-PATENT-CLASS-169-47
US-PATENT-CLASS-252-2
US-PATENT-CLASS-252-5
US-PATENT-4,406,797

N83-36220* c 27 ..... NASA-CASE-MFS-25436-1
US-PATENT-APPL-SN-280151
US-PATENT-CLASS-156-DIG.73
US-PATENT-CLASS-156-DIG.89
US-PATENT-CLASS-156-600
US-PATENT-CLASS-156-610
US-PATENT-CLASS-165-2
US-PATENT-CLASS-165-58
US-PATENT-CLASS-219-343
US-PATENT-CLASS-219-354
US-PATENT-CLASS-219-390
US-PATENT-CLASS-219-411
US-PATENT-CLASS-350-316
US-PATENT-4,408,658

N83-36355* c 33 ..... NASA-CASE-GSC-12630-1
US-PATENT-APPL-SN-308009
US-PATENT-CLASS-343-100AP
US-PATENT-CLASS-343-840
US-PATENT-4,407,001

N83-36356* c 33 ..... NASA-CASE-KSC-11170-1
US-PATENT-APPL-SN-284288
US-PATENT-CLASS-330-110
US-PATENT-CLASS-330-282
US-PATENT-4,406,989

N83-36357* c 33 ..... NASA-CASE-LAR-12654-1
US-PATENT-APPL-SN-234225
US-PATENT-CLASS-368-184
US-PATENT-CLASS-368-200
US-PATENT-CLASS-368-201
US-PATENT-4,407,589

N83-36482* c 37 ..... NASA-CASE-MSC-18791-1
US-PATENT-APPL-SN-248746
US-PATENT-CLASS-29-446
US-PATENT-CLASS-73-862.54
US-PATENT-CLASS-81-55
US-PATENT-CLASS-81-57.38
US-PATENT-4,407,165

N83-36483* c 37 ..... NASA-CASE-MSC-18807-1
US-PATENT-APPL-SN-266688
US-PATENT-CLASS-123-197R
US-PATENT-CLASS-123-78E
US-PATENT-4,406,256

N83-36846* c 71 ..... NASA-CASE-NPO-15435-1

US-PATENT-APPL-SN-272837
US-PATENT-CLASS-308-10
US-PATENT-CLASS-73-505
US-PATENT-4,402,221
N83-36898* c 74 ..... NASA-CASE-GSC-12683-1
US-PATENT-APPL-SN-333535
US-PATENT-CLASS-350-173
US-PATENT-CLASS-350-445
US-PATENT-4,407,563
N84-11136* c 02 ..... NASA-CASE-LAR-12843-1
US-PATENT-APPL-SN-392096
US-PATENT-CLASS-244-35A
US-PATENT-CLASS-244-35R
US-PATENT-CLASS-416-223R
US-PATENT-CLASS-416-242
US-PATENT-4,412,664
N84-11213* c 24 ..... NASA-CASE-ARC-11418-1
US-PATENT-APPL-SN-452464
US-PATENT-CLASS-523-435
US-PATENT-CLASS-523-456
US-PATENT-CLASS-528-110
US-PATENT-CLASS-528-361
US-PATENT-4,410,682
N84-11214* c 24 ..... NASA-CASE-LAR-12807-1
US-PATENT-APPL-SN-280155
US-PATENT-CLASS-228-157
US-PATENT-CLASS-228-181
US-PATENT-CLASS-228-212
US-PATENT-CLASS-244-119
US-PATENT-CLASS-244-123
US-PATENT-CLASS-428-593
US-PATENT-CLASS-52-806
US-PATENT-CLASS-52-808
US-PATENT-4,411,380
N84-11497* c 37 ..... NASA-CASE-MFS-25678-1
US-PATENT-APPL-SN-378533
US-PATENT-CLASS-277-116.6
US-PATENT-CLASS-277-124
US-PATENT-CLASS-277-164
US-PATENT-CLASS-277-177
US-PATENT-CLASS-277-190
US-PATENT-4,410,189
N84-11744* c 52 ..... NASA-CASE-MFS-25740-1
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US-PATENT-CLASS-128-DIG.25
US-PATENT-CLASS-128-1R
US-PATENT-CLASS-128-346
US-PATENT-4,408,597
N84-11758* c 54 ..... NASA-CASE-MSC-18223-2
US-PATENT-APPL-SN-219681
US-PATENT-APPL-SN-368187
US-PATENT-CLASS-604-368
US-PATENT-CLASS-604-378
US-PATENT-CLASS-604-396
US-PATENT-4,338,371
US-PATENT-4,411,660
N84-11920* c 74 ..... NASA-CASE-GSC-12640-1
US-PATENT-APPL-SN-267178
US-PATENT-CLASS-250-363R
US-PATENT-CLASS-250-363S
US-PATENT-CLASS-250-368
US-PATENT-CLASS-378-2
US-PATENT-4,404,469
N84-11921* c 74 ..... NASA-CASE-NPO-15375-1
US-PATENT-APPL-SN-210405
US-PATENT-CLASS-250-227
US-PATENT-CLASS-3-1.1
US-PATENT-CLASS-350-96.10
US-PATENT-CLASS-350-96.15
US-PATENT-CLASS-73-432T
US-PATENT-4,405,197
N84-12154* c 05 ..... NASA-CASE-LAR-12615-1
US-PATENT-APPL-SN-263829
US-PATENT-CLASS-244-13
US-PATENT-CLASS-244-45R
US-PATENT-CLASS-244-53R
US-PATENT-CLASS-244-55
US-PATENT-CLASS-244-91
US-PATENT-4,415,133
N84-12193* # c 09 ..... NASA-CASE-ARC-11426-1
US-PATENT-APPL-SN-526741
N84-12262* c 25 ..... NASA-CASE-NPO-15458-1
US-PATENT-APPL-SN-376306
US-PATENT-CLASS-204-DIG.3
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-242
US-PATENT-CLASS-204-278
US-PATENT-CLASS-204-290R
US-PATENT-CLASS-427-443.2
US-PATENT-CLASS-429-111
US-PATENT-4,414,080
N84-12406* c 34 ..... NASA-CASE-MFS-25631-1
US-PATENT-APPL-SN-308203
US-PATENT-CLASS-239-426
US-PATENT-4,413,784
N84-12443* c 35 ..... NASA-CASE-FRC-11068-1
US-PATENT-APPL-SN-322314
US-PATENT-CLASS-156-215
US-PATENT-CLASS-156-230
US-PATENT-CLASS-156-235
US-PATENT-CLASS-156-294
US-PATENT-CLASS-156-391
US-PATENT-CLASS-156-423
US-PATENT-CLASS-156-540
US-PATENT-CLASS-156-71
US-PATENT-CLASS-338-2
US-PATENT-4,407,686
N84-12444* c 35 ..... NASA-CASE-LAR-12706-1
US-PATENT-APPL-SN-210498
US-PATENT-CLASS-324-250
US-PATENT-CLASS-328-230
US-PATENT-CLASS-372-74
US-PATENT-4,414,509
N84-12445* c 35 ..... NASA-CASE-LAR-12882-1
US-PATENT-APPL-SN-267179
US-PATENT-CLASS-364-415
US-PATENT-CLASS-73-646
US-PATENT-CLASS-73-658
US-PATENT-4,413,522
N84-12491* c 37 ..... NASA-CASE-GSC-12619-1
US-PATENT-APPL-SN-225499
US-PATENT-CLASS-101-407BP
US-PATENT-CLASS-269-3
US-PATENT-4,393,777
N84-12492* c 37 ..... NASA-CASE-GSC-12622-1
US-PATENT-APPL-SN-243684
US-PATENT-CLASS-308-2A
US-PATENT-4,405,184
N84-12493* c 37 ..... NASA-CASE-LAR-12923-1
US-PATENT-APPL-SN-383063
US-PATENT-CLASS-416-117
US-PATENT-CLASS-416-132B
US-PATENT-4,415,311
N84-12654* c 45 ..... NASA-CASE-NSTL-10
US-PATENT-APPL-SN-335036
US-PATENT-CLASS-210-151
US-PATENT-CLASS-210-602
US-PATENT-CLASS-210-605
US-PATENT-CLASS-210-617
US-PATENT-CLASS-47-58
US-PATENT-4,415,450
N84-12968* # c 76 ..... NASA-CASE-NPO-15811-1
US-PATENT-APPL-SN-347175
N84-14132* c 04 ..... NASA-CASE-LAR-12638-1
US-PATENT-APPL-SN-367187
US-PATENT-CLASS-33-DIG.3
US-PATENT-CLASS-33-348
US-PATENT-CLASS-33-356
US-PATENT-CLASS-33-361
US-PATENT-4,418,480
N84-14322* c 27 ..... NASA-CASE-ARC-11400-1
US-PATENT-APPL-SN-441899
US-PATENT-CLASS-428-246
US-PATENT-CLASS-428-260
US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-524-494
US-PATENT-CLASS-524-496
US-PATENT-CLASS-524-500
US-PATENT-CLASS-524-530
US-PATENT-CLASS-525-282
US-PATENT-CLASS-525-287
US-PATENT-4,421,820
N84-14323* c 27 ..... NASA-CASE-LAR-12881-1
US-PATENT-APPL-SN-361215
US-PATENT-CLASS-206-447
US-PATENT-CLASS-206-582
US-PATENT-CLASS-428-202
US-PATENT-CLASS-428-347
US-PATENT-CLASS-428-40
US-PATENT-CLASS-428-78
US-PATENT-4,420,518
N84-14324* c 27 ..... NASA-CASE-MSC-18382-2
US-PATENT-APPL-SN-241155
US-PATENT-CLASS-524-371
US-PATENT-4,395,511
N84-14421* c 33 ..... NASA-CASE-GSC-12650-1
US-PATENT-APPL-SN-301077
US-PATENT-CLASS-330-107
US-PATENT-CLASS-330-109
US-PATENT-4,417,215
N84-14422* c 33 ..... NASA-CASE-LEW-13286-1
US-PATENT-APPL-SN-272406
US-PATENT-CLASS-252-182.1
US-PATENT-CLASS-429-206
US-PATENT-CLASS-429-229
US-PATENT-4,418,130
N84-14423* c 33 ..... NASA-CASE-MFS-25211-2
US-PATENT-APPL-SN-432057
US-PATENT-CLASS-339-258RR
US-PATENT-CLASS-339-262RR
US-PATENT-CLASS-339-64M
US-PATENT-4,421,371
N84-14424* c 33 ..... NASA-CASE-MFS-25477-1
US-PATENT-APPL-SN-243683
US-PATENT-APPL-SN-297524
US-PATENT-APPL-SN-350472
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-806
US-PATENT-4,417,190
N84-14461* c 34 ..... NASA-CASE-GSC-12771-1
US-PATENT-APPL-SN-434672
US-PATENT-CLASS-165-32
US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-96
US-PATENT-4,420,035
N84-14491* c 35 ..... NASA-CASE-LAR-12686-1
US-PATENT-APPL-SN-249304
US-PATENT-CLASS-364-557
US-PATENT-CLASS-364-558
US-PATENT-CLASS-364-571
US-PATENT-CLASS-73-714
US-PATENT-4,399,515
N84-14509* c 36 ..... NASA-CASE-GSC-12565-1
US-PATENT-APPL-SN-270763
US-PATENT-CLASS-350-299
US-PATENT-CLASS-356-345
US-PATENT-CLASS-372-100
US-PATENT-CLASS-372-108
US-PATENT-CLASS-372-93
US-PATENT-CLASS-372-94
US-PATENT-CLASS-372-98
US-PATENT-4,420,836
N84-14583* c 44 ..... NASA-CASE-NPO-15100-1
US-PATENT-APPL-SN-259211
US-PATENT-CLASS-138-42
US-PATENT-CLASS-251-127
US-PATENT-4,418,722
N84-14873* c 71 ..... NASA-CASE-LAR-11903-2
US-PATENT-APPL-SN-238791
US-PATENT-APPL-SN-753971
US-PATENT-CLASS-239-265.17
US-PATENT-4,398,667
N84-16231* c 15 ..... NASA-CASE-LAR-12751-1
US-PATENT-APPL-SN-338386
US-PATENT-CLASS-73-167
US-PATENT-CLASS-73-432R
US-PATENT-CLASS-73-9
US-PATENT-4,425,785
N84-16255* c 23 ..... NASA-CASE-NPO-15767-1
US-PATENT-APPL-SN-315584
US-PATENT-CLASS-208-10
US-PATENT-CLASS-208-8LE
US-PATENT-4,388,171
N84-16262* c 24 ..... NASA-CASE-MSC-16934-3
US-PATENT-APPL-SN-185868
US-PATENT-APPL-SN-361711
US-PATENT-APPL-SN-969757
US-PATENT-CLASS-164-119
US-PATENT-CLASS-264-118
US-PATENT-CLASS-264-59
US-PATENT-CLASS-264-60
US-PATENT-4,421,700
N84-16276* c 25 ..... NASA-CASE-LEW-13426-1
US-PATENT-APPL-SN-393588
US-PATENT-CLASS-110-186
US-PATENT-CLASS-110-262
US-PATENT-CLASS-110-263
US-PATENT-CLASS-110-265
US-PATENT-CLASS-431-1
US-PATENT-4,425,854
N84-16452* c 33 ..... NASA-CASE-LEW-13570-1
US-PATENT-APPL-SN-251009
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-333-162
US-PATENT-4,422,012
N84-16453* c 33 ..... NASA-CASE-MFS-25430-1
US-PATENT-APPL-SN-383083
US-PATENT-CLASS-363-25
US-PATENT-CLASS-363-65
US-PATENT-CLASS-363-67
US-PATENT-CLASS-363-71
US-PATENT-4,426,678
N84-16454* c 33 ..... NASA-CASE-GSC-12645-1
US-PATENT-APPL-SN-284314
US-PATENT-CLASS-324-79R
US-PATENT-CLASS-324-83A
US-PATENT-CLASS-324-83R
US-PATENT-CLASS-328-133
US-PATENT-CLASS-330-289
US-PATENT-4,425,543
N84-16455* c 33 ..... NASA-CASE-MFS-25616-1

US-PATENT-APPL-SN-325932
US-PATENT-CLASS-318-799
US-PATENT-CLASS-323-243
US-PATENT-CLASS-323-246
US-PATENT-4,426,614

N84-16456* c 33 ..... NASA-CASE-NPO-15161-1
US-PATENT-APPL-SN-325083
US-PATENT-CLASS-427-216
US-PATENT-CLASS-427-217
US-PATENT-CLASS-427-226
US-PATENT-CLASS-427-376.6
US-PATENT-CLASS-427-376.7
US-PATENT-CLASS-427-436
US-PATENT-CLASS-427-437
US-PATENT-CLASS-427-58
US-PATENT-CLASS-427-75
US-PATENT-CLASS-427-88
US-PATENT-CLASS-427-96
US-PATENT-4,388,346

N84-16523* c 35 ..... NASA-CASE-LAR-12007-3
US-PATENT-APPL-SN-352831
US-PATENT-CLASS-33-293
US-PATENT-4,428,122

N84-16542* c 36 ..... NASA-CASE-LAR-12870-1
US-PATENT-APPL-SN-317658
US-PATENT-CLASS-372-55
US-PATENT-CLASS-372-79
US-PATENT-4,424,592

N84-16560* c 37 ..... NASA-CASE-MFS-25510-1
US-PATENT-APPL-SN-293414
US-PATENT-CLASS-248-228
US-PATENT-4,422,609

N84-16561* c 37 ..... NASA-CASE-LAR-12785-1
US-PATENT-APPL-SN-297488
US-PATENT-CLASS-239-568
US-PATENT-CLASS-241-95
US-PATENT-CLASS-406-155
US-PATENT-4,428,703

N84-16803* c 54 ..... NASA-CASE-MSC-20202-1
US-PATENT-APPL-SN-414106
US-PATENT-CLASS-128-1A
US-PATENT-CLASS-128-15R
US-PATENT-CLASS-128-38
US-PATENT-4,421,109

N84-16940* c 71 ..... NASA-CASE-NPO-15592-1
US-PATENT-APPL-SN-314702
US-PATENT-CLASS-118-300
US-PATENT-CLASS-118-50
US-PATENT-CLASS-118-50.1
US-PATENT-CLASS-118-500
US-PATENT-CLASS-118-57
US-PATENT-CLASS-118-62
US-PATENT-CLASS-427-346
US-PATENT-CLASS-427-421
US-PATENT-CLASS-427-426
US-PATENT-CLASS-427-57
US-PATENT-CLASS-427-6
US-PATENT-CLASS-65-213
US-PATENT-4,425,376

N84-16959* # c 72 ..... NASA-CASE-NPO-15547-1
US-PATENT-APPL-SN-276076

N84-17555* c 35 ..... NASA-CASE-NPO-15426-1
US-PATENT-APPL-SN-196877
US-PATENT-CLASS-210-748
US-PATENT-CLASS-422-121
US-PATENT-CLASS-422-169
US-PATENT-CLASS-422-178
US-PATENT-CLASS-422-186
US-PATENT-CLASS-55-DIG.25
US-PATENT-CLASS-55-DIG.30
US-PATENT-CLASS-55-105
US-PATENT-CLASS-55-12
US-PATENT-CLASS-55-126
US-PATENT-CLASS-55-131
US-PATENT-CLASS-55-138
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US-PATENT-CLASS-55-145
US-PATENT-CLASS-55-2
US-PATENT-CLASS-55-270
US-PATENT-CLASS-55-283
US-PATENT-CLASS-55-291
US-PATENT-CLASS-55-466
US-PATENT-CLASS-55-6
US-PATENT-CLASS-55-96
US-PATENT-CLASS-60-275
US-PATENT-CLASS-60-303
US-PATENT-CLASS-60-311
US-PATENT-4,376,637

N84-22546* c 04 ..... NASA-CASE-GSC-12508-1
US-PATENT-APPL-SN-266253
US-PATENT-CLASS-343-356
US-PATENT-CLASS-343-357
US-PATENT-4,445,118

N84-22551* c 05 ..... NASA-CASE-LAR-12541-1
US-PATENT-APPL-SN-315588
US-PATENT-CLASS-244-212
US-PATENT-CLASS-244-215
US-PATENT-CLASS-244-216
US-PATENT-CLASS-244-219
US-PATENT-4,444,368

N84-22559* c 07 ..... NASA-CASE-LEW-13622-1
US-PATENT-APPL-SN-350473
US-PATENT-CLASS-364-558
US-PATENT-CLASS-73-115
US-PATENT-4,428,226

N84-22560* c 07 ..... NASA-CASE-LEW-13654-1
US-PATENT-APPL-SN-245571
US-PATENT-CLASS-416-224
US-PATENT-CLASS-416-233
US-PATENT-CLASS-416-92
US-PATENT-CLASS-416-97R
US-PATENT-4,411,597

N84-22601* c 16 ..... NASA-CASE-MSC-20254-1
US-PATENT-APPL-SN-418137
US-PATENT-CLASS-244-158A
US-PATENT-CLASS-52-404
US-PATENT-CLASS-52-506
US-PATENT-4,439,968

N84-22605* c 18 ..... NASA-CASE-MSC-18969-1
US-PATENT-APPL-SN-368189
US-PATENT-CLASS-244-161
US-PATENT-CLASS-403-322
US-PATENT-4,431,333

N84-22609* # c 18 ..... NASA-CASE-MFS-15429-1
US-PATENT-APPL-SN-596959

N84-22610* # c 18 ..... NASA-CASE-MSC-20543-1
US-PATENT-APPL-SN-580574

N84-22612* # c 18 ..... NASA-CASE-ARC-11505-1
US-PATENT-APPL-SN-588036

N84-22695* c 24 ..... NASA-CASE-LEW-13837-1
US-PATENT-APPL-SN-495381
US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192R
US-PATENT-CLASS-204-192SP
US-PATENT-CLASS-423-DIG.10
US-PATENT-CLASS-423-414
US-PATENT-CLASS-423-445
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-4,437,962

N84-22709* c 25 ..... NASA-CASE-NPO-15210-1
US-PATENT-APPL-SN-322312
US-PATENT-CLASS-208-10
US-PATENT-CLASS-208-8LE
US-PATENT-4,443,321

N84-22734* c 26 ..... NASA-CASE-LEW-13349-1
US-PATENT-APPL-SN-350476
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-427-115
US-PATENT-CLASS-427-125
US-PATENT-CLASS-427-126.6
US-PATENT-CLASS-427-296
US-PATENT-CLASS-427-306
US-PATENT-CLASS-429-223
US-PATENT-CLASS-429-234
US-PATENT-4,439,465

N84-22744* c 27 ..... NASA-CASE-ARC-11402-1
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US-PATENT-CLASS-260-465.6
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US-PATENT-CLASS-528-401
US-PATENT-CLASS-528-422
US-PATENT-CLASS-528-423
US-PATENT-CLASS-544-215
US-PATENT-CLASS-564-243
US-PATENT-4,434,106

N84-22745* c 27 ..... NASA-CASE-ARC-11368-3
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US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-902
US-PATENT-CLASS-428-920
US-PATENT-CLASS-525-417
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-322
US-PATENT-CLASS-548-415
US-PATENT-4,395,557
US-PATENT-4,433,115

N84-22746* c 27 ..... NASA-CASE-LAR-12723-2
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US-PATENT-APPL-SN-447371
US-PATENT-CLASS-525-426
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-345
US-PATENT-CLASS-528-348
US-PATENT-4,395,540
US-PATENT-4,431,792

N84-22747* c 27 ..... NASA-CASE-LAR-12931-1
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US-PATENT-CLASS-525-536
US-PATENT-CLASS-528-25
US-PATENT-CLASS-528-26
US-PATENT-4,431,761

N84-22748* c 27 ..... NASA-CASE-NPO-15640-1
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US-PATENT-CLASS-156-304.6
US-PATENT-CLASS-156-499
US-PATENT-CLASS-156-81
US-PATENT-CLASS-156-89
US-PATENT-4,420,352

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US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-185
US-PATENT-4,444,979

N84-22750* c 27 ..... NASA-CASE-ARC-11370-1
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US-PATENT-CLASS-528-394
US-PATENT-CLASS-528-399
US-PATENT-CLASS-528-6
US-PATENT-CLASS-528-7
US-PATENT-CLASS-568-4
US-PATENT-CLASS-568-5
US-PATENT-4,444,972

N84-22820* c 32 ..... NASA-CASE-MSC-18675-1
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US-PATENT-CLASS-343-9R
US-PATENT-4,439,766

N84-22884* c 33 ..... NASA-CASE-MFS-256704-1
US-PATENT-APPL-SN-409679
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US-PATENT-4,437,961

N84-22885* c 33 ..... NASA-CASE-MFS-25535-2
US-PATENT-APPL-SN-476244
US-PATENT-CLASS-318-438
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-798
US-PATENT-CLASS-318-805
US-PATENT-CLASS-318-810
US-PATENT-4,433,276

N84-22886* c 33 ..... NASA-CASE-MFS-25323-1
US-PATENT-APPL-SN-297524
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US-PATENT-CLASS-318-812
US-PATENT-4,439,718

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US-PATENT-CLASS-330-277
US-PATENT-CLASS-330-294
US-PATENT-4,437,069

N84-22903* c 34 ..... NASA-CASE-NPO-15465-1
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US-PATENT-CLASS-62-DIG.1
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US-PATENT-CLASS-62-467R
US-PATENT-4,423,605

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US-PATENT-CLASS-74-58
US-PATENT-4,434,659

N84-22929* c 35 ..... NASA-CASE-MFS-25405-1
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US-PATENT-4,428,675

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US-PATENT-CLASS-156-905
US-PATENT-CLASS-228-165
US-PATENT-4,437,923

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US-PATENT-4,431,306

N84-22932* c 35 ..... NASA-CASE-LAR-12967-1
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US-PATENT-CLASS-310-366
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US-PATENT-CLASS-367-189
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US-PATENT-CLASS-73-594
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N84-22934* c 35 ..... NASA-CASE-ARC-11361-1
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US-PATENT-CLASS-73-756
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US-PATENT-CLASS-372-28
US-PATENT-CLASS-372-32
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US-PATENT-CLASS-427-53.1
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US-PATENT-APPL-SN-431448
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US-PATENT-CLASS-427-423
US-PATENT-CLASS-427-53.1
US-PATENT-CLASS-428-155
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US-PATENT-CLASS-60-736
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US-PATENT-CLASS-415-2R
US-PATENT-CLASS-60-641.12
US-PATENT-CLASS-60-698
US-PATENT-CLASS-60-716
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US-PATENT-CLASS-204-DIG.3
US-PATENT-CLASS-204-129
US-PATENT-CLASS-204-278
US-PATENT-CLASS-204-280
US-PATENT-CLASS-423-303
US-PATENT-CLASS-429-111
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US-PATENT-CLASS-204-192E
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US-PATENT-CLASS-2-167
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US-PATENT-CLASS-358-213
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US-PATENT-CLASS-350-173
US-PATENT-CLASS-350-443
US-PATENT-4,444,464
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US-PATENT-CLASS-340-975
US-PATENT-CLASS-340-978
US-PATENT-CLASS-340-980
US-PATENT-CLASS-73-178R
US-PATENT-4,453,163
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US-PATENT-CLASS-244-172
US-PATENT-CLASS-244-63
US-PATENT-4,452,412
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US-PATENT-CLASS-244-2
US-PATENT-CLASS-244-63
US-PATENT-4,451,017
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US-PATENT-CLASS-73-856
US-PATENT-4,452,088
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US-PATENT-CLASS-427-405
US-PATENT-CLASS-427-419.2
US-PATENT-CLASS-428-632
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US-PATENT-CLASS-528-310
US-PATENT-CLASS-528-327
US-PATENT-CLASS-528-331
US-PATENT-CLASS-528-362
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US-PATENT-CLASS-528-342
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US-PATENT-CLASS-244-158A
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US-PATENT-CLASS-434-2
US-PATENT-4,450,447
N84-27952* c 32 ..... NASA-CASE-MSC-16170-2
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US-PATENT-APPL-SN-737975
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US-PATENT-CLASS-375-77
US-PATENT-CLASS-375-81
US-PATENT-CLASS-455-202
US-PATENT-CLASS-455-208
US-PATENT-CLASS-455-260
US-PATENT-CLASS-455-265
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US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-331-82
US-PATENT-CLASS-333-162
US-PATENT-4,459,562
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US-PATENT-CLASS-318-809
US-PATENT-CLASS-323-300
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N84-28017* c 35 ..... NASA-CASE-NPO-15706-1
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US-PATENT-CLASS-310-171
US-PATENT-CLASS-310-68B
US-PATENT-CLASS-335-222
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US-PATENT-CLASS-73-170R
US-PATENT-CLASS-73-32R
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US-PATENT-CLASS-73-1B
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US-PATENT-CLASS-372-4
US-PATENT-CLASS-372-71
US-PATENT-CLASS-372-93
US-PATENT-CLASS-372-95
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US-PATENT-APPL-SN-401288
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US-PATENT-CLASS-417-392
US-PATENT-CLASS-417-462
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US-PATENT-CLASS-74-5.5
US-PATENT-CLASS-74-573R
US-PATENT-4,458,554
N84-28083* c 37 ..... NASA-CASE-GSC-12762-1
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US-PATENT-CLASS-269-242
US-PATENT-CLASS-269-244
US-PATENT-CLASS-269-252
US-PATENT-CLASS-269-285
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N84-28084* c 37 ..... NASA-CASE-LAR-12644-1
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US-PATENT-CLASS-74-753
US-PATENT-CLASS-74-758
US-PATENT-CLASS-74-812
US-PATENT-4,446,757
N84-28085* c 37 ..... NASA-CASE-LAR-12786-1
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US-PATENT-CLASS-30-188
US-PATENT-CLASS-30-228
US-PATENT-CLASS-30-249
US-PATENT-CLASS-30-272R
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US-PATENT-CLASS-126-438
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US-PATENT-CLASS-126-438
US-PATENT-CLASS-126-440
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US-PATENT-CLASS-427-115

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US-PATENT-CLASS-427-443
US-PATENT-CLASS-429-44
US-PATENT-4,454,649
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US-PATENT-CLASS-73-189
US-PATENT-CLASS-73-861.71
US-PATENT-4,449,400
N84-28361* c 51 ..... NASA-CASE-ARC-11359-1
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US-PATENT-CLASS-521-141
US-PATENT-CLASS-521-142
US-PATENT-CLASS-521-149
US-PATENT-4,456,708
N84-28388* c 52 ..... NASA-CASE-LAR-12650-1
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US-PATENT-CLASS-128-346
US-PATENT-CLASS-24-560
US-PATENT-4,416,266
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US-PATENT-APPL-SN-465363
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US-PATENT-CLASS-156-285
US-PATENT-CLASS-156-289
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US-PATENT-CLASS-29-451
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US-PATENT-CLASS-2-164
US-PATENT-CLASS-2-167
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US-PATENT-CLASS-340-825.5
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US-PATENT-CLASS-313-351
US-PATENT-CLASS-315-5.38
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US-PATENT-CLASS-366-106
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-160
US-PATENT-CLASS-65-21.3
US-PATENT-CLASS-65-21.4
US-PATENT-4,447,251
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US-PATENT-CLASS-324-457
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US-PATENT-CLASS-324-72.5
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US-PATENT-CLASS-250-338
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US-PATENT-CLASS-416-223R
US-PATENT-CLASS-416-242
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US-PATENT-CLASS-428-423.5
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US-PATENT-CLASS-428-76
US-PATENT-CLASS-428-921
US-PATENT-CLASS-5-459
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N84-33410* c 07 ..... NAS 1.71:LEW-13524-1
NASA-CASE-LEW-13524-1
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US-PATENT-CLASS-60-39.83
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US-PATENT-CLASS-428-184
US-PATENT-CLASS-428-595
US-PATENT-CLASS-52-814
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US-PATENT-CLASS-428-639
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US-PATENT-CLASS-219-522
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US-PATENT-CLASS-338-309
US-PATENT-CLASS-428-432
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US-PATENT-CLASS-322-47
US-PATENT-CLASS-322-95
US-PATENT-4,388,585
US-PATENT-4,473,792
N84-33661* c 33 ..... NAS 1.71:MFS-25852-1
NASA-CASE-MFS-25852-1
US-PATENT-APPL-SN-450319
US-PATENT-CLASS-318-729
US-PATENT-CLASS-318-802
US-PATENT-4,469,998
N84-33663* c 33 ..... NAS 1.71:LEW-13495-1
NASA-CASE-LEW-13495-1
US-PATENT-APPL-SN-368188
US-PATENT-CLASS-323-901
US-PATENT-CLASS-363-22
US-PATENT-CLASS-363-49
US-PATENT-4,464,710
N84-33765* c 35 ..... NAS 1.71:GSC-12682-1
NASA-CASE-GSC-12682-1
US-PATENT-APPL-SN-350477
US-PATENT-CLASS-250-367
US-PATENT-CLASS-250-385
US-PATENT-CLASS-250-483.1
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-32
US-PATENT-4,472,728
N84-33766* c 35 ..... NAS 1.71:NPO-13556-1
NASA-CASE-NPO-13556-1
US-PATENT-APPL-SN-561369
US-PATENT-CLASS-250-339
US-PATENT-CLASS-356-188
US-PATENT-CLASS-356-189
US-PATENT-CLASS-356-73
US-PATENT-CLASS-356-74
US-PATENT-4,043,668
N84-33767* c 35 ..... NAS 1.71:NPO-15644-1
NASA-CASE-NPO-15644-1
US-PATENT-APPL-SN-358088
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US-PATENT-CLASS-250-372
US-PATENT-4,469,942
N84-33768* c 35 ..... NAS 1.71:MFS-25717-1
NASA-CASE-MFS-25717-1
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US-PATENT-CLASS-175-45
US-PATENT-CLASS-299-1
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N84-33769* c 35 ..... NAS 1.71:NPO-15341-1
NASA-CASE-NPO-15341-1
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US-PATENT-CLASS-180-168
US-PATENT-CLASS-318-587
US-PATENT-CLASS-340-905
US-PATENT-CLASS-340-988
US-PATENT-4,472,716
N84-33807* c 37 ..... NAS 1.71:MFS-25862-2
NASA-CASE-MFS-25862-2
US-PATENT-APPL-SN-460509
US-PATENT-CLASS-73-12
US-PATENT-CLASS-73-588
US-PATENT-4,470,293
N84-33808* c 37 ..... NAS 1.71:LEW-12995-1
NASA-CASE-LEW-12995-1
US-PATENT-APPL-SN-157150
US-PATENT-CLASS-60-303
US-PATENT-CLASS-60-606
US-PATENT-4,449,370
N84-34443* c 06 ..... NASA-CASE-NPO-15351-2
US-PATENT-APPL-SN-224231
US-PATENT-APPL-SN-412039
US-PATENT-CLASS-73-178-R
US-PATENT-4,346,595
US-PATENT-4,474,062
N84-34448* c 09 ..... NASA-CASE-LAR-12950-1
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US-PATENT-CLASS-73-147
US-PATENT-4,475,385
N84-34571* c 24 ..... NAS 1.71:LAR-13230-1
NASA-CASE-LAR-13230-1
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US-PATENT-CLASS-523-458
US-PATENT-CLASS-525-484
US-PATENT-CLASS-528-407
US-PATENT-CLASS-528-92
US-PATENT-4,473,674
N84-34651* c 32 ..... NAS 1.71:NPO-15519-1
NASA-CASE-NPO-15519-1
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US-PATENT-CLASS-343-5-DP
US-PATENT-CLASS-343-5-FT
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N84-34705* c 35 ..... NAS 1.71:NPO-15558-1
NASA-CASE-NPO-15558-1
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US-PATENT-CLASS-250-351
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US-PATENT-CLASS-356-51
US-PATENT-4,474,471
N84-34792* c 44 ..... NAS 1.71:NPO-15808-1
NASA-CASE-NPO-15808-1
US-PATENT-APPL-SN-383068
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US-PATENT-CLASS-4-498
US-PATENT-4,470,403
N84-34913* c 52 ..... NASA-CASE-GSC-12652-1
US-PATENT-APPL-SN-377891
US-PATENT-CLASS-128-24-A
US-PATENT-CLASS-128-328
US-PATENT-4,474,180
N84-35112*# c 76 ..... NASA-CASE-NPO-15786-1
US-PATENT-APPL-SN-366103
US-PATENT-CLASS-204-1T
US-PATENT-CLASS-204-37.6
US-PATENT-CLASS-204-56R
US-PATENT-CLASS-324-158D
US-PATENT-CLASS-324-158T
US-PATENT-4,462,871
N84-35113* c 76 ..... NASA-CASE-NPO-15629-1
US-PATENT-APPL-SN-371351
US-PATENT-CLASS-156-DIG.64
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-DIG.98
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617-SP
US-PATENT-CLASS-156-617-V
US-PATENT-CLASS-422-246
US-PATENT-CLASS-422-249
US-PATENT-4,469,552
N85-19985* c 08 ..... NAS 1.71:LAR-12787-2
NASA-CASE-LAR-12787-2

US-PATENT-APPL-SN-301078
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US-PATENT-CLASS-244-90R
US-PATENT-4,485,992
N85-19990* c 09 ..... NAS 1.71:KSC-11218-1
NASA-CASE-KSC-11218-1
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US-PATENT-CLASS-434-35
US-PATENT-CLASS-434-49
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N85-20123* c 27 ..... NAS 1.71:LAR-12723-1
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US-PATENT-CLASS-528-345
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N85-20124* c 27 ..... NAS 1.71:LAR-12858-2
NASA-CASE-LAR-12858-2
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US-PATENT-CLASS-264-120
US-PATENT-CLASS-264-137
US-PATENT-CLASS-264-152
US-PATENT-CLASS-264-258
US-PATENT-CLASS-264-331.12
US-PATENT-CLASS-264-331.19
US-PATENT-CLASS-528-226
US-PATENT-CLASS-528-239
US-PATENT-CLASS-528-241
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US-PATENT-CLASS-24-447
US-PATENT-CLASS-24-450
US-PATENT-CLASS-24-693
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N85-20126* c 27 ..... NAS 1.71:MFS-25862-1
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US-PATENT-CLASS-73-582
US-PATENT-CLASS-73-588
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N85-20153* c 31 ..... NAS 1.71:LEW-14080-1
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US-PATENT-CLASS-204-192R
US-PATENT-CLASS-204-192SP
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US-PATENT-CLASS-423-414
US-PATENT-CLASS-423-445
US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-4,490,229
N85-20294* c 35 ..... NAS 1.71:GSC-12789-1
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US-PATENT-CLASS-177-260
US-PATENT-CLASS-73-862.54
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N85-20295* c 35 ..... NAS 1.71:LAR-13065-1
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N85-20300*# c 35 ..... NAS 1.71:MFS-28008-1
NASA-CASE-MFS-28008-1
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N85-20337* c 37 ..... NAS 1.71:GSC-12582-2
NASA-CASE-GSC-12582-2
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US-PATENT-APPL-SN-415960
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US-PATENT-CLASS-104-284
US-PATENT-CLASS-308-10
US-PATENT-4,473,259
N85-20338* c 37 ..... NAS 1.71:MSC-20112-1
NASA-CASE-MSC-20112-1
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US-PATENT-CLASS-251-267
US-PATENT-CLASS-251-284
US-PATENT-CLASS-251-297
US-PATENT-CLASS-74-424.8B
US-PATENT-CLASS-74-424.8VA
US-PATENT-4,483,512
N85-20530* c 44 ..... NAS 1.71:LEW-13414-1
NASA-CASE-LEW-13414-1
US-PATENT-APPL-SN-465364
US-PATENT-CLASS-136-256
US-PATENT-CLASS-427-85
US-PATENT-4,478,879
N85-21147* c 05 ..... NAS 1.71:LAR-12979-1
NASA-CASE-LAR-12979-1
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US-PATENT-CLASS-244-147
US-PATENT-CLASS-244-75R
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N85-21178* c 09 ..... NAS 1.71:LAR-13014-1
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N85-21256* c 20 ..... NAS 1.71:LEW-13881-1
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N85-21266* c 24 ..... NAS 1.71:LEW-13324-2
NASA-CASE-LEW-13324-2
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US-PATENT-APPL-SN-523297
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US-PATENT-CLASS-428-656
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US-PATENT-CLASS-428-684
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N85-21267* c 24 ..... NAS 1.71:LEW-13837-2
NASA-CASE-LEW-13837-2
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US-PATENT-APPL-SN-591089
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US-PATENT-CLASS-204-192N
US-PATENT-CLASS-204-192R
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US-PATENT-CLASS-423-446
US-PATENT-CLASS-423-449
US-PATENT-CLASS-427-39
US-PATENT-4,437,962
US-PATENT-4,495,044
N85-21279* c 25 ..... NAS 1.71:GSC-12808-1
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US-PATENT-4,483,817
N85-21280* c 25 ..... NAS 1.71:MFS-25721-1
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NASA-CASE-ARC-11368-2
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US-PATENT-APPL-SN-288267
US-PATENT-APPL-SN-502820
US-PATENT-CLASS-526-262
US-PATENT-CLASS-526-274
US-PATENT-CLASS-528-167
US-PATENT-CLASS-528-168
US-PATENT-CLASS-528-170
US-PATENT-CLASS-528-321
US-PATENT-CLASS-528-322
US-PATENT-4,276,344
US-PATENT-4,395,557
US-PATENT-4,496,701
N85-21348* c 27 ..... NASA-CASE-ARC-11413-1
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US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-166
US-PATENT-CLASS-528-185
US-PATENT-CLASS-528-186
US-PATENT-CLASS-528-187
US-PATENT-CLASS-528-226
US-PATENT-CLASS-528-229
US-PATENT-CLASS-528-352
US-PATENT-CLASS-528-353
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N85-21349* c 27 ..... NAS 1.71:LAR-12775-2
NASA-CASE-LAR-12775-2
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US-PATENT-APPL-SN-461788
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US-PATENT-CLASS-525-182
US-PATENT-CLASS-525-183
US-PATENT-CLASS-525-184
US-PATENT-CLASS-525-474
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US-PATENT-4,497,935
N85-21350* c 27 ..... NAS 1.71:LEW-13770-3
NASA-CASE-LEW-13770-3
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US-PATENT-APPL-SN-561431
US-PATENT-CLASS-526-217
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-229
US-PATENT-CLASS-528-315
US-PATENT-CLASS-528-322
US-PATENT-CLASS-528-336
US-PATENT-CLASS-528-342
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N85-21351* c 27 ..... NAS 1.71:LEW-13770-4
NASA-CASE-LEW-13770-4
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US-PATENT-APPL-SN-561429
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US-PATENT-CLASS-528-322
US-PATENT-CLASS-528-342
US-PATENT-4,497,939
N85-21352* c 27 ..... NAS 1.71:LEW-13770-5
NASA-CASE-LEW-13770-5
US-PATENT-APPL-SN-516217
US-PATENT-APPL-SN-561435
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US-PATENT-CLASS-528-342
US-PATENT-4,497,940
N85-21404* c 31 ..... NAS 1.71:GSC-12799-1
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US-PATENT-CLASS-31-35
US-PATENT-CLASS-310-22
US-PATENT-CLASS-417-417
US-PATENT-CLASS-417-488
US-PATENT-CLASS-62-6
US-PATENT-CLASS-92-98R
US-PATENT-4,500,265
N85-21427* c 32 ..... NAS 1.71:MSC-18578-1
NASA-CASE-MSC-18578-1
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US-PATENT-CLASS-358-161
US-PATENT-CLASS-358-174
US-PATENT-CLASS-358-217
US-PATENT-CLASS-358-219
US-PATENT-4,495,520
N85-21428* c 32 ..... NAS 1.71:NPO-15433-1
NASA-CASE-NPO-15433-1
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US-PATENT-CLASS-364-200
US-PATENT-4,493,021
N85-21491* c 33 ..... NAS 1.71:NPO-15560-1
NASA-CASE-NPO-15560-1
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US-PATENT-CLASS-250-426
US-PATENT-CLASS-313-131A
US-PATENT-CLASS-315-111.31
US-PATENT-CLASS-315-111.81
US-PATENT-4,475,063
N85-21492* c 33 ..... NAS 1.71:LEW-13833-1
NASA-CASE-LEW-13833-1
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US-PATENT-CLASS-136-255
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US-PATENT-CLASS-357-30
US-PATENT-4,482,779
N85-21493* c 33 ..... NAS 1.71:NPO-15920-1
NASA-CASE-NPO-15920-1
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US-PATENT-CLASS-343-376
US-PATENT-4,488,155
N85-21568* c 34 ..... NAS 1.71:LAR-12588-1
NASA-CASE-LAR-12588-1
US-PATENT-APPL-SN-234222
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-73-179
US-PATENT-CLASS-73-708
US-PATENT-4,485,670
N85-21595* c 35 ..... NAS 1.71:MSC-20275-1
NASA-CASE-MSC-20275-1
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US-PATENT-CLASS-222-309

US-PATENT-CLASS-222-340
US-PATENT-CLASS-222-43
US-PATENT-CLASS-222-48
US-PATENT-4,488,663
N85-21596* c 35 ..... NAS 1.71:NPO-15759-1
NASA-CASE-NPO-15759-1
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US-PATENT-CLASS-429-58
US-PATENT-4,499,424
N85-21597* c 35 ..... NAS 1.71:NPO-16027-1
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US-PATENT-CLASS-73-753
US-PATENT-4,498,333
N85-21598* c 35 ..... NAS 1.71:WLP-10055-2
NASA-CASE-WLP-10055-2
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US-PATENT-APPL-SN-526770
US-PATENT-CLASS-29-610SG
US-PATENT-4,425,808
US-PATENT-4,498,231
N85-21631* c 36 ..... NAS 1.71:NPO-15790-1
NASA-CASE-NPO-15790-1
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US-PATENT-CLASS-250-339
US-PATENT-CLASS-250-343
US-PATENT-4,489,239
N85-21639* c 36 ..... NAS 1.71:GSC-12558-1
NASA-CASE-GSC-12558-1
US-PATENT-APPL-SN-383086
US-PATENT-CLASS-356-43
US-PATENT-CLASS-356-45
US-PATENT-CLASS-374-137
US-PATENT-CLASS-73-705
US-PATENT-4,493,553
N85-21649* c 37 ..... NAS 1.71:MSC-20319-1
NASA-CASE-MSC-20319-1
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US-PATENT-CLASS-292-252
US-PATENT-CLASS-403-317
US-PATENT-CLASS-81-177G
US-PATENT-4,483,639
N85-21650* c 37 ..... NAS 1.71:NPO-15483-1
NASA-CASE-NPO-15483-1
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US-PATENT-CLASS-125-13R
US-PATENT-CLASS-125-15
US-PATENT-CLASS-51-73R
US-PATENT-CLASS-82-90
US-PATENT-CLASS-83-664
US-PATENT-CLASS-83-676
US-PATENT-4,475,527
N85-21651* c 37 ..... NAS 1.71:LAR-12868-1
NASA-CASE-LAR-12868-1
US-PATENT-APPL-SN-322321
US-PATENT-CLASS-374-208
US-PATENT-CLASS-374-210
US-PATENT-4,491,427
N85-21652* c 37 ..... NAS 1.71:NPO-15851-1
NASA-CASE-NPO-15851-1
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US-PATENT-CLASS-134-37
US-PATENT-CLASS-15-406
US-PATENT-CLASS-422-129
US-PATENT-CLASS-422-199
US-PATENT-4,500,492
N85-21723* c 43 ..... NAS 1.71:NPO-15651-1
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US-PATENT-APPL-SN-375620
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US-PATENT-CLASS-374-122
US-PATENT-4,499,470
N85-21768* c 44 ..... NAS 1.71:LEW-13827-1
NASA-CASE-LEW-13827-1
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US-PATENT-CLASS-136-246
US-PATENT-CLASS-357-30
US-PATENT-4,482,778
N85-21769* c 44 ..... NAS 1.71:MFS-25637-1
NASA-CASE-MFS-25637-1
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US-PATENT-CLASS-290-1R
US-PATENT-CLASS-290-4R
US-PATENT-CLASS-307-64
US-PATENT-CLASS-307-66
US-PATENT-CLASS-318-46
US-PATENT-CLASS-318-729
US-PATENT-4,489,243
N85-21846* c 46 ..... NAS 1.71:NPO-15430-1
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US-PATENT-CLASS-343-460
US-PATENT-CLASS-343-5W
US-PATENT-4,463,357
N85-21992* c 60 ..... NAS 1.71:NPO-15295-1
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N85-22104* c 71 ..... NAS 1.71:NPO-15466-1
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US-PATENT-CLASS-23-313R
US-PATENT-CLASS-55-15
US-PATENT-CLASS-55-277
US-PATENT-4,475,921
N85-22105* c 71 ..... NAS 1.71:NPO-16022-1
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US-PATENT-CLASS-73-505
US-PATENT-4,463,606
N85-22139* c 74 ..... NAS 1.71:NPO-15155-1
NASA-CASE-NPO-15155-1
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US-PATENT-CLASS-250-221
US-PATENT-CLASS-340-555
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N85-22877* c 33 ..... NAS 1.71:MFS-25861-1
NASA-CASE-MFS-25861-1
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US-PATENT-CLASS-318-812
US-PATENT-4,489,264
N85-23396* c 74 ..... NAS 1.71:NPO-15801-1
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US-PATENT-CLASS-350-505
US-PATENT-CLASS-350-619
US-PATENT-CLASS-356-323
US-PATENT-CLASS-356-330
US-PATENT-CLASS-356-331
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US-PATENT-CLASS-525-534
US-PATENT-CLASS-528-86
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N85-28982* c 25 ..... NASA-CASE-LEW-13770-2
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US-PATENT-CLASS-528-304
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US-PATENT-CLASS-156-380.2
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US-PATENT-CLASS-219-10.49
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US-PATENT-CLASS-219-10.77
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US-PATENT-CLASS-364-453
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US-PATENT-CLASS-436-2
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US-PATENT-CLASS-165-61
US-PATENT-CLASS-165-64
US-PATENT-CLASS-244-163
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US-PATENT-CLASS-364-556
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US-PATENT-CLASS-239-375
US-PATENT-CLASS-239-590
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US-PATENT-CLASS-248-555
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US-PATENT-CLASS-427-422
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US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-314
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US-PATENT-CLASS-324-65R
US-PATENT-4,516,071
N85-30281* c 35 ..... NASA-CASE-GSC-12851-1
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US-PATENT-CLASS-250-369
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US-PATENT-CLASS-356-358
US-PATENT-CLASS-73-657
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US-PATENT-CLASS-357-40
US-PATENT-CLASS-357-46
US-PATENT-CLASS-372-38
US-PATENT-CLASS-372-46
US-PATENT-CLASS-372-50
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US-PATENT-CLASS-310-93
US-PATENT-CLASS-318-611
US-PATENT-CLASS-335-100
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US-PATENT-CLASS-403-16
US-PATENT-CLASS-403-322
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US-PATENT-CLASS-52-745
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US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-900
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US-PATENT-CLASS-136-256
US-PATENT-CLASS-136-261
US-PATENT-CLASS-357-30
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US-PATENT-CLASS-128-736
US-PATENT-CLASS-374-117
US-PATENT-CLASS-374-160
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US-PATENT-CLASS-209-638
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US-PATENT-CLASS-148-33.2
US-PATENT-CLASS-156-DIG.65
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-612
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US-PATENT-CLASS-29-576J
US-PATENT-CLASS-29-576W
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US-PATENT-CLASS-324-71.5
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N85-33187* c 23 ..... NASA-CASE-ARC-11243-2
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N85-33433* c 34 ..... NASA-CASE-LEW-14039-1
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US-PATENT-CLASS-416-97A
US-PATENT-4,529,358
N85-33489* c 37 ..... NASA-CASE-LEW-13914-1
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US-PATENT-CLASS-315-5.38
US-PATENT-CLASS-445-35
US-PATENT-4,527,092
N85-33490* c 37 ..... NASA-CASE-LEW-13506-1
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US-PATENT-CLASS-384-99
US-PATENT-4,527,910
N85-33701* c 60 ..... NASA-CASE-MFS-25319-1
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US-PATENT-CLASS-364-853
US-PATENT-4,528,639
N85-33826* c 76 ..... NASA-CASE-MSC-20036-1
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US-PATENT-CLASS-204-192C
US-PATENT-CLASS-204-192P
US-PATENT-CLASS-350-342
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US-PATENT-CLASS-428-698
US-PATENT-CLASS-428-913
US-PATENT-4,522,469
N85-34280* c 27 ..... NASA-CASE-ARC-11522-2
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N85-34281* c 27 ..... NASA-CASE-ARC-11424-1
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US-PATENT-CLASS-525-119
US-PATENT-CLASS-525-186
US-PATENT-CLASS-525-229
US-PATENT-CLASS-528-113
US-PATENT-CLASS-528-117
US-PATENT-CLASS-528-407
US-PATENT-CLASS-528-94
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US-PATENT-CLASS-523-458
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US-PATENT-CLASS-528-407
US-PATENT-CLASS-528-92
US-PATENT-4,510,277
N85-34327* c 32 ..... NASA-CASE-NPO-15704-1
US-PATENT-APPL-SN-359382
US-PATENT-CLASS-343-17.2-PC
US-PATENT-CLASS-343-5-CM
US-PATENT-CLASS-343-5-W
US-PATENT-4,509,048
N85-34333* c 33 ..... NASA-CASE-NPO-15696-1
US-PATENT-APPL-SN-387647
US-PATENT-CLASS-364-571
US-PATENT-CLASS-364-578
US-PATENT-CLASS-372-32
US-PATENT-4,509,132
N85-34373* c 35 ..... NAS 1.71:NPO-15493-2
NAS 1.71:NPO-15494-2

US-PATENT-APPL-SN-563890
US-PATENT-CLASS-324-65-P
US-PATENT-CLASS-73-75
US-PATENT-4,532,797

N85-34374* c 35 ..... NASA-CASE-ARC-11503-1
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US-PATENT-CLASS-250-374
US-PATENT-CLASS-250-379
US-PATENT-4,538,066

N85-34375* c 35 ..... NASA-CASE-LAR-13243-1
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US-PATENT-CLASS-73-831
US-PATENT-CLASS-73-856
US-PATENT-4,535,636

N85-34401* c 37 ..... NASA-CASE-MFS-25907-1
US-PATENT-APPL-SN-510137
US-PATENT-CLASS-244-118.1
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-248-550
US-PATENT-CLASS-267-150
US-PATENT-CLASS-267-8R
US-PATENT-CLASS-410-156
US-PATENT-4,536,114

N85-34403* c 37 ..... NASA-CASE-MSC-20127-2
US-PATENT-APPL-SN-646044
US-PATENT-CLASS-137-116.3
US-PATENT-CLASS-137-99
US-PATENT-4,509,548

N85-34441* c 44 ..... NASA-CASE-LEW-14077-1
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US-PATENT-CLASS-136-253
US-PATENT-4,528,417

N85-34629* c 74 ..... NASA-CASE-NPO-15865-1
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US-PATENT-CLASS-343-13-R
US-PATENT-CLASS-356-5
US-PATENT-4,533,242

N85-34722* c 85 ..... NASA-CASE-NPO-15949-1
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US-PATENT-CLASS-414-288
US-PATENT-CLASS-414-328
US-PATENT-CLASS-414-373
US-PATENT-CLASS-414-786
US-PATENT-4,537,554

N85-35194* c 07 ..... NASA-CASE-LAR-13019-1
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US-PATENT-CLASS-244-199
US-PATENT-CLASS-244-55
US-PATENT-4,533,101

N85-35195* c 07 ..... NASA-CASE-LEW-13562-2
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US-PATENT-CLASS-60-39.23
US-PATENT-CLASS-60-748
US-PATENT-4,534,166

N85-35200* c 08 ..... NASA-CASE-LAR-13076-1
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US-PATENT-CLASS-244-113
US-PATENT-CLASS-244-139
US-PATENT-CLASS-244-75-R
US-PATENT-4,538,778

N85-35227* c 23 ..... NASA-CASE-NPO-16203-1
US-PATENT-APPL-SN-493179
US-PATENT-CLASS-435-160
US-PATENT-CLASS-435-842
US-PATENT-4,539,293

N85-35233* c 24 ..... NASA-CASE-LEW-14057-1
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US-PATENT-APPL-SN-523297
US-PATENT-APPL-SN-640712
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US-PATENT-CLASS-428-656
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US-PATENT-CLASS-428-680
US-PATENT-CLASS-428-681
US-PATENT-CLASS-428-682
US-PATENT-4,485,151
US-PATENT-4,535,033

N85-35253* c 25 ..... NASA-CASE-NPO-15924-1
US-PATENT-APPL-SN-526768
US-PATENT-CLASS-201-17
US-PATENT-CLASS-44-1-SR
US-PATENT-4,511,362

N85-35267* c 26 ..... NASA-CASE-LEW-13923-1
US-PATENT-APPL-SN-571617
US-PATENT-CLASS-427-191
US-PATENT-CLASS-427-228
US-PATENT-CLASS-427-294
US-PATENT-CLASS-427-376.2
US-PATENT-CLASS-427-380
US-PATENT-CLASS-427-397.7
US-PATENT-CLASS-428-698
US-PATENT-CLASS-428-704
US-PATENT-4,535,035

N86-12547* c 34 ..... NASA-CASE-LAR-13220-1
US-PATENT-APPL-SN-633179
US-PATENT-CLASS-73-3
US-PATENT-CLASS-73-861.07
US-PATENT-4,538,446

N86-19304* c 04 ..... NASA-CASE-KSC-11155-1
US-PATENT-APPL-SN-425201
US-PATENT-CLASS-343-6.8-R
US-PATENT-4,540,986

N86-19310* c 05 ..... NASA-CASE-LAR-13155-1
US-PATENT-APPL-SN-469371
US-PATENT-CLASS-244-158-A
US-PATENT-CLASS-244-158-R
US-PATENT-CLASS-244-172
US-PATENT-4,557,444

N86-19376* c 23 ..... NASA-CASE-ARC-11428-1
US-PATENT-APPL-SN-499126
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US-PATENT-CLASS-428-410
US-PATENT-CLASS-528-310
US-PATENT-CLASS-548-413
US-PATENT-CLASS-564-113
US-PATENT-4,550,177

N86-19380* c 24 ..... NASA-CASE-ARC-11427-1
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US-PATENT-CLASS-523-445
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US-PATENT-CLASS-525-423
US-PATENT-CLASS-525-527
US-PATENT-CLASS-528-102
US-PATENT-CLASS-528-103
US-PATENT-4,550,129

N86-19413* c 25 ..... NASA-CASE-MSC-20622-1
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US-PATENT-CLASS-374-8
US-PATENT-CLASS-422-78
US-PATENT-CLASS-436-155
US-PATENT-CLASS-73-7
US-PATENT-4,561,784

N86-19455* c 27 ..... NASA-CASE-ARC-11405-2
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US-PATENT-CLASS-260-245.9
US-PATENT-CLASS-528-327
US-PATENT-4,522,755

N86-19456* c 27 ..... NASA-CASE-LAR-13135-1
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US-PATENT-CLASS-525-436
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US-PATENT-CLASS-528-182
US-PATENT-CLASS-528-185
US-PATENT-CLASS-528-352
US-PATENT-CLASS-528-353
US-PATENT-4,552,931

N86-19457* c 27 ..... NASA-CASE-LEW-13864-1
US-PATENT-APPL-SN-434087
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US-PATENT-CLASS-528-322
US-PATENT-CLASS-528-342
US-PATENT-CLASS-528-345
US-PATENT-4,560,742

N86-19458* c 27 ..... NASA-CASE-LEW-14072-1
US-PATENT-APPL-SN-649330
US-PATENT-CLASS-204-192-C
US-PATENT-CLASS-204-192-D
US-PATENT-CLASS-204-192-R
US-PATENT-CLASS-204/298
US-PATENT-CLASS-427-248.1
US-PATENT-CLASS-427-38
US-PATENT-CLASS-428-446
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-428-702
US-PATENT-4,560,577

N86-19479* c 31 ..... NASA-CASE-LAR-13098-1
US-PATENT-APPL-SN-530339
US-PATENT-CLASS-16-242
US-PATENT-CLASS-16-390
US-PATENT-CLASS-403-171
US-PATENT-CLASS-403-64
US-PATENT-CLASS-52-632
US-PATENT-CLASS-52-637
US-PATENT-CLASS-52-646
US-PATENT-CLASS-52-648
US-PATENT-4,557,097

N86-19515* c 33 ..... NASA-CASE-GSC-12555-1
US-PATENT-APPL-SN-153240
US-PATENT-CLASS-331-116-FE
US-PATENT-CLASS-331-117-FE
US-PATENT-4,553,110

N86-19516* c 33 ..... NASA-CASE-NPO-16112-1
US-PATENT-APPL-SN-542232
US-PATENT-CLASS-357-23.6
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-58
US-PATENT-CLASS-357-59
US-PATENT-4,531,143

N86-19580* c 35 ..... NASA-CASE-GSC-12795-1
US-PATENT-APPL-SN-462508
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US-PATENT-CLASS-374-120
US-PATENT-CLASS-374-163
US-PATENT-4,556,327

N86-19581* c 35 ..... NASA-CASE-MSC-20250-1
US-PATENT-APPL-SN-491113
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US-PATENT-CLASS-73-862.54
US-PATENT-4,557,149

N86-19603* c 37 ..... NASA-CASE-MFS-25949-1
US-PATENT-APPL-SN-538063
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US-PATENT-CLASS-901-31
US-PATENT-CLASS-901-50
US-PATENT-4,545,723

N86-19604* c 37 ..... NASA-CASE-NPO-15960-1
US-PATENT-APPL-SN-527613
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US-PATENT-CLASS-60-527
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US-PATENT-4,553,393

N86-19605* c 37 ..... NASA-CASE-NPO-16038-1
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US-PATENT-4,558,967

N86-19606* c 37 ..... NASA-CASE-LEW-13670-1
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US-PATENT-CLASS-384-106
US-PATENT-4,552,466

N86-19711* c 43 ..... NASA-CASE-NPO-15939-1
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US-PATENT-CLASS-343-5-CM
US-PATENT-CLASS-343-5-VQ
US-PATENT-CLASS-367-88
US-PATENT-4,551,724

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US-PATENT-CLASS-429-15
US-PATENT-CLASS-429-19
US-PATENT-CLASS-429-51
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N86-19885*# c 52 ..... NAS 1.71:GSC-12944-1
NASA-CASE-GSC-12944-1
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N86-20124* c 74 ..... NASA-CASE-MFS-25942-1
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N86-20125* c 74 ..... NASA-CASE-ARC-11502-1
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US-PATENT-CLASS-350-319
US-PATENT-CLASS-350-448
US-PATENT-CLASS-350-537
US-PATENT-CLASS-350-580
US-PATENT-4,542,963

N86-20126* c 74 ..... NASA-CASE-MSC-20418-1
US-PATENT-APPL-SN-438446
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US-PATENT-CLASS-378-59
US-PATENT-4,542,520

N86-20150* c 76 ..... NASA-CASE-GSC-12816-1
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US-PATENT-CLASS-136-262
US-PATENT-CLASS-29-572
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-30
US-PATENT-4,543,442

N86-20389* c 07 ..... NASA-CASE-LEW-13142-2
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US-PATENT-CLASS-60-39.07
US-PATENT-CLASS-60-736
US-PATENT-4,550,561

N86-20469* c 18 ..... NASA-CASE-MFS-25429-1
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US-PATENT-CLASS-403-328
US-PATENT-4,554,905

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US-PATENT-CLASS-525-186
US-PATENT-CLASS-526-262

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N86-20561* c 27 ..... NASA-CASE-LAR-13384-1
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US-PATENT-CLASS-156-331.5
US-PATENT-CLASS-256-308.2
US-PATENT-CLASS-427-385.5
US-PATENT-CLASS-427-388.1
US-PATENT-CLASS-428-458
US-PATENT-CLASS-428-473.5
US-PATENT-4,543,295
N86-20647* c 32 ..... NASA-CASE-MFS-25750-1
US-PATENT-APPL-SN-530185
US-PATENT-CLASS-250-225
US-PATENT-CLASS-350-354
US-PATENT-CLASS-358-168
US-PATENT-4,546,248
N86-20668* c 33 ..... NASA-CASE-GSC-12804-1
US-PATENT-APPL-SN-529803
US-PATENT-CLASS-331-1-A
US-PATENT-CLASS-331-2
US-PATENT-4,550,292
N86-20669* c 33 ..... NASA-CASE-GSC-12899-1
US-PATENT-APPL-SN-613140
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US-PATENT-CLASS-242-107
US-PATENT-CLASS-242-54-R
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N86-20670* c 33 ..... NASA-CASE-MFS-25868-1
US-PATENT-APPL-SN-638584
US-PATENT-CLASS-330-258
US-PATENT-CLASS-330-261
US-PATENT-CLASS-330-311
US-PATENT-4,551,687
N86-20671* c 33 ..... NASA-CASE-LEW-13773-2
US-PATENT-APPL-SN-638541
US-PATENT-CLASS-244-134-D
US-PATENT-CLASS-310-324
US-PATENT-CLASS-39-25.35
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N86-20672* c 33 ..... NASA-CASE-LEW-13922-1
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US-PATENT-CLASS-307-270
US-PATENT-CLASS-307-566
US-PATENT-CLASS-307-570
US-PATENT-CLASS-307-572
US-PATENT-4,547,686
N86-20680*# c 33 ..... NAS 1.71:LEW-14127-1
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N86-20681*# c 33 ..... NAS 1.71:NPO-16420-1
NASA-CASE-NPO-16420-1
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N86-20750* c 35 ..... NASA-CASE-MFS-25963-1
US-PATENT-APPL-SN-571614
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US-PATENT-CLASS-165-61
US-PATENT-CLASS-165-65
US-PATENT-CLASS-219-390
US-PATENT-CLASS-219-395
US-PATENT-CLASS-219-396
US-PATENT-CLASS-432-18
US-PATENT-4,544,025
N86-20751* c 35 ..... NASA-CASE-ARC-11422-1
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US-PATENT-CLASS-211-74
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N86-20752* c 35 ..... NASA-CASE-NPO-16142-1-CU
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US-PATENT-4,549,435
N86-20756*# c 35 ..... NAS 1.71:MSC-20783-1
NASA-CASE-MSC-20783-1
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N86-20788* c 37 ..... NASA-CASE-MFS-25842-2
US-PATENT-APPL-SN-692875
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US-PATENT-CLASS-415-174
US-PATENT-4,545,586
N86-20789* c 37 ..... NASA-CASE-MFS-25906-1
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US-PATENT-CLASS-212-230
US-PATENT-CLASS-414-4
US-PATENT-CLASS-414-718
US-PATENT-CLASS-414-753
US-PATENT-CLASS-901-25
US-PATENT-CLASS-901-31
US-PATENT-4,547,121
N86-20797*# c 37 ..... NAS 1.71:ARC-11349-1
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N86-20801*# c 37 ..... NAS 1.71:NPO-16233-1
NASA-CASE-NPO-16233-1
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N86-20841* c 39 ..... NASA-CASE-MFS-25910-1
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US-PATENT-CLASS-73-827
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US-PATENT-4,545,025
N86-21276* c 71 ..... NASA-CASE-LAR-13153-1
US-PATENT-APPL-SN-590921
US-PATENT-CLASS-72-324
US-PATENT-CLASS-72-341
US-PATENT-CLASS-73-1-DV
US-PATENT-4,558,585
N86-21348* c 74 ..... NASA-CASE-MFS-25752-1
US-PATENT-APPL-SN-473499
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US-PATENT-CLASS-356-345
US-PATENT-CLASS-356-4.5
US-PATENT-CLASS-358-105
US-PATENT-CLASS-358-125
US-PATENT-CLASS-358-88
US-PATENT-CLASS-364-822
US-PATENT-CLASS-382-42
US-PATENT-4,556,986
N86-21582* c 23 ..... NASA-CASE-ARC-11402-3
US-PATENT-APPL-SN-741405
US-PATENT-CLASS-564-243
US-PATENT-4,567,301
N86-21590* c 24 ..... NASA-CASE-ARC-11538-1SB
US-PATENT-APPL-SN-719796
US-PATENT-CLASS-526-262
US-PATENT-4,568,733
N86-21675* c 27 ..... NASA-CASE-LAR-12931-2
US-PATENT-APPL-SN-527914
US-PATENT-CLASS-260-544-D
US-PATENT-CLASS-556-436
US-PATENT-CLASS-585-24
US-PATENT-4,565,886
N86-21718* c 31 ..... NASA-CASE-MFS-25905-2
US-PATENT-APPL-SN-601130
US-PATENT-CLASS-65-1
US-PATENT-CLASS-65-11.1
US-PATENT-CLASS-65-12
US-PATENT-CLASS-65-2
US-PATENT-4,565,557
N86-21742* c 33 ..... NASA-CASE-LEW-13981-2
US-PATENT-APPL-SN-714051
US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-315-3.6
US-PATENT-CLASS-315-39.3
US-PATENT-CLASS-330-43
US-PATENT-4,564,787
N86-21850* c 37 ..... NASA-CASE-MFS-25807-2
US-PATENT-APPL-SN-685607
US-PATENT-CLASS-219-124.34
US-PATENT-CLASS-318-577
US-PATENT-CLASS-358-101
US-PATENT-CLASS-901-42
US-PATENT-CLASS-901-47
US-PATENT-4,567,348
N86-22112* c 54 ..... NASA-CASE-LAR-12259-2
US-PATENT-APPL-SN-280152
US-PATENT-CLASS-128-80-E
US-PATENT-4,566,447
N86-22459*# c 89 ..... NAS 1.71:MFS-28013-1
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US-PATENT-APPL-SN-765979
N86-24224*# c 60 ..... NAS 1.71:NPO-16464-1CU
NASA-CASE-NPO-16464-1CU
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N86-24729* c 18 ..... NASA-CASE-MSC-20676-1
US-PATENT-APPL-SN-587764
US-PATENT-CLASS-244-159
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N86-24841*# c 27 ..... NAS 1.71:LAR-13292-1
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N86-25269*# c 76 ..... NAS 1.71:NPO-16584-1-CU
NASA-CASE-NPO-16584-1-CU
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N86-25416* c 24 ..... NASA-CASE-ARC-11421-3
US-PATENT-APPL-SN-771538
US-PATENT-CLASS-428-473.5
US-PATENT-CLASS-428-474.4
US-PATENT-CLASS-428-477.7
US-PATENT-CLASS-528-170
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-321
US-PATENT-CLASS-528-322
US-PATENT-4,579-782
N86-25428* c 25 ..... NASA-CASE-NPO-16392-1
US-PATENT-APPL-SN-633363
US-PATENT-CLASS-208-11
US-PATENT-CLASS-48-197-R
US-PATENT-CLASS-8-DIG.9
US-PATENT-4,582,590
N86-25752* c 35 ..... NASA-CASE-MFS-28030-1
US-PATENT-APPL-SN-719799
US-PATENT-CLASS-73-861.58
US-PATENT-4,572,004
N86-25753* c 35 ..... NASA-CASE-NPO-16271-1
US-PATENT-APPL-SN-556514
US-PATENT-CLASS-356-311
US-PATENT-CLASS-356-318
US-PATENT-4,585,344
N86-25789* c 37 ..... NASA-CASE-LAR-13117-1
US-PATENT-APPL-SN-556512
US-PATENT-CLASS-244-159
US-PATENT-CLASS-244-173
US-PATENT-CLASS-343-881
US-PATENT-CLASS-343-882
US-PATENT-CLASS-52-111
US-PATENT-CLASS-52-645
US-PATENT-CLASS-52-648
US-PATENT-4,578,920
N86-25790* c 37 ..... NASA-CASE-LEW-14170-1
US-PATENT-APPL-SN-672224
US-PATENT-CLASS-227-27
US-PATENT-CLASS-227-28
US-PATENT-4,580-791
N86-25791* c 37 ..... NASA-CASE-LAR-13169-1
US-PATENT-APPL-SN-606431
US-PATENT-CLASS-343-DIG.2
US-PATENT-CLASS-343-883
US-PATENT-CLASS-52-110
US-PATENT-4,587,526
N86-25874* c 44 ..... NASA-CASE-LEW-13822-1
US-PATENT-APPL-SN-625077
US-PATENT-CLASS-42-101
US-PATENT-CLASS-429-27
US-PATENT-CLASS-429-57
US-PATENT-4,584,249
N86-26190* c 74 ..... NASA-CASE-GSC-12849-1
US-PATENT-APPL-SN-556481
US-PATENT-CLASS-250-228
US-PATENT-CLASS-356-236
US-PATENT-CLASS-356-244
US-PATENT-CLASS-356-446
US-PATENT-CLASS-56-73
US-PATENT-4,583,860
N86-26352* c 16 ..... NASA-CASE-MFS-25966-1
US-PATENT-APPL-SN-643522
US-PATENT-CLASS-244-161
US-PATENT-4,582,277
N86-26368* c 20 ..... NASA-CASE-MFS-25946-1
US-PATENT-APPL-SN-561432
US-PATENT-CLASS-244-158.R
US-PATENT-CLASS-244-169
US-PATENT-CLASS-60-203.1
US-PATENT-CLASS-60-39.465
US-PATENT-4,585,191
N86-26595* c 35 ..... NASA-CASE-MSC-20653-1
US-PATENT-APPL-SN-659474
US-PATENT-CLASS-73-863.21
US-PATENT-CLASS-73-863.31
US-PATENT-CLASS-73-863.72
US-PATENT-CLASS-73-864.34
US-PATENT-4,584,887
N86-26598*# c 35 ..... NAS 1.71:MFS-26002-1-CU
NASA-CASE-MFS-26002-1-CU
US-PATENT-APPL-SN-765991
N86-27270* c 04 ..... NASA-CASE-NPO-16171-1CU
US-PATENT-APPL-SN-551536
US-PATENT-CLASS-343-357
US-PATENT-CLASS-343-418
US-PATENT-4,578,678
N86-27280* c 06 ..... NASA-CASE-LAR-12518-1
US-PATENT-APPL-SN-578388
US-PATENT-CLASS-244-181
US-PATENT-CLASS-340-968
US-PATENT-CLASS-364-433
US-PATENT-CLASS-364-435
US-PATENT-CLASS-73-178T
US-PATENT-4,586,140
N86-27288* c 08 ..... NASA-CASE-ARC-11372-1
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US-PATENT-CLASS-200-157
US-PATENT-CLASS-244-234
US-PATENT-CLASS-250-211K
US-PATENT-CLASS-318-584
US-PATENT-CLASS-318-640
US-PATENT-4,584,510
N86-27431* c 25 ..... NASA-CASE-MSC-20206-1
US-PATENT-APPL-SN-478129
US-PATENT-CLASS-141-198
US-PATENT-CLASS-200-61.05
US-PATENT-CLASS-340-605
US-PATENT-4,591,838

N86-27450* c 27 ..... NASA-CASE-LAR-13316-1
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US-PATENT-CLASS-526-285
US-PATENT-CLASS-528-171
US-PATENT-CLASS-528-174
US-PATENT-CLASS-528-176
US-PATENT-4,587,312

N86-27451* c 27 ..... NASA-CASE-ARC-11427-2
US-PATENT-APPL-SN-765980
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US-PATENT-CLASS-523-445
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US-PATENT-CLASS-525-108
US-PATENT-CLASS-525-115
US-PATENT-CLASS-525-119
US-PATENT-CLASS-525-122
US-PATENT-4,588,778

N86-27513* c 32 ..... NASA-CASE-KSC-11285-1
US-PATENT-APPL-SN-655601
US-PATENT-CLASS-179-18BC
US-PATENT-CLASS-340-347DD
US-PATENT-CLASS-365-768
US-PATENT-4,588,986

N86-27593* c 34 ..... NASA-CASE-MSC-20812-1
US-PATENT-APPL-SN-616002
US-PATENT-CLASS-122-366
US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-41
US-PATENT-4,583,587

N86-27629* c 37 ..... NASA-CASE-ARC-11525-1
US-PATENT-APPL-SN-681041
US-PATENT-CLASS-318-48
US-PATENT-CLASS-318-632
US-PATENT-CLASS-318-663
US-PATENT-CLASS-318-8
US-PATENT-4,591,772

N86-27630* c 37 ..... NASA-CASE-LAR-13250-1
US-PATENT-APPL-SN-573162
US-PATENT-CLASS-403-312
US-PATENT-CLASS-403-388
US-PATENT-CLASS-403-408.1
US-PATENT-4,579,475

N86-27706* c 44 ..... NASA-CASE-NPO-16236-1
US-PATENT-APPL-SN-582495
US-PATENT-CLASS-126-418
US-PATENT-CLASS-126-419
US-PATENT-CLASS-126-438
US-PATENT-4,586,487

N86-28131* c 24 ..... NASA-CASE-ARC-11615-1SB
US-PATENT-APPL-SN-706682
US-PATENT-CLASS-428-116
US-PATENT-CLASS-428-408
US-PATENT-CLASS-428-921
US-PATENT-CLASS-526-265
US-PATENT-4,598,007

N86-28618* c 54 ..... NASA-CASE-ARC-11616-1
US-PATENT-APPL-SN-684193
US-PATENT-CLASS-128-202.11
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-2.1R
US-PATENT-CLASS-414-1
US-PATENT-CLASS-414-5
US-PATENT-CLASS-414-7
US-PATENT-CLASS-414-8
US-PATENT-4,593,415

N86-28619* c 54 ..... NASA-CASE-ARC-11610-1
US-PATENT-APPL-SN-684190
US-PATENT-CLASS-138-120
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-2-2.1R
US-PATENT-CLASS-285-168
US-PATENT-4,598,427

N86-28620* c 54 ..... NASA-CASE-ARC-11543-1
US-PATENT-APPL-SN-684192
US-PATENT-CLASS-138-120
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-168
US-PATENT-CLASS-414-7
US-PATENT-4,594,734

N86-28732* c 74 ..... NASA-CASE-GSC-12825-1
US-PATENT-APPL-SN-698641
US-PATENT-CLASS-350-276R
US-PATENT-CLASS-350-505
US-PATENT-CLASS-354-479
US-PATENT-CLASS-358-222
US-PATENT-4,598,981

N86-28760* c 76 ..... NASA-CASE-NPO-15904-1
US-PATENT-APPL-SN-465369
US-PATENT-CLASS-156-DIG.88
US-PATENT-CLASS-156-610
US-PATENT-CLASS-156-624
US-PATENT-4,596,626

N86-29039* c 27 ..... NASA-CASE-LAR-13353-1
US-PATENT-APPL-SN-643524
US-PATENT-CLASS-264-204
US-PATENT-CLASS-264-216
US-PATENT-CLASS-264-236
US-PATENT-CLASS-264-347
US-PATENT-CLASS-528-183
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-341
US-PATENT-4,595,548

N86-29055* c 31 ..... NASA-CASE-MFS-25825-1
US-PATENT-APPL-SN-657309
US-PATENT-CLASS-318-605
US-PATENT-CLASS-318-636
US-PATENT-CLASS-318-661
US-PATENT-CLASS-340-347CC
US-PATENT-CLASS-340-347SY
US-PATENT-4,594,540

N86-29174* c 35 ..... NASA-CASE-LAR-13254-1CU
US-PATENT-APPL-SN-668432
US-PATENT-CLASS-261-78A
US-PATENT-CLASS-55-255
US-PATENT-CLASS-55-259
US-PATENT-CLASS-55-521
US-PATENT-CLASS-55-528
US-PATENT-4,595,399

N86-29204* c 36 ..... NAS 1.71:LAR-13256-1
NASA-CASE-LAR-13256-1
US-PATENT-APPL-SN-745973
US-PATENT-CLASS-372-79
US-PATENT-4,594,720

N86-29507*# c 54 ..... NASA-CASE-ARC-11534-1
US-PATENT-APPL-SN-642602
US-PATENT-CLASS-138-120
US-PATENT-CLASS-2-2.1A
US-PATENT-CLASS-285-168
US-PATENT-CLASS-285-184
US-PATENT-CLASS-285-227
US-PATENT-CLASS-403-164
US-PATENT-4,598,428

N86-29650*# c 74 ..... NASA-CASE-GSC-12911-1
US-PATENT-APPL-SN-606426
US-PATENT-CLASS-350-315
US-PATENT-CLASS-350-318
US-PATENT-CLASS-356-402
US-PATENT-CLASS-356-419
US-PATENT-4,599,001

N86-31726*# c 27 ..... NASA-CASE-ARC-11421-2
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US-PATENT-CLASS-528-170
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-321
US-PATENT-CLASS-528-322
US-PATENT-4,600,769

N86-31727* c 27 ..... NASA-CASE-LAR-13351-1
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US-PATENT-CLASS-264-236
US-PATENT-CLASS-427-162
US-PATENT-CLASS-427-164
US-PATENT-CLASS-427-165
US-PATENT-CLASS-428-336
US-PATENT-CLASS-428-473.5
US-PATENT-4,603,061

N86-32266* c 74 ..... NASA-CASE-GSC-12761-1
US-PATENT-APPL-SN-406820
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US-PATENT-CLASS-356-5
US-PATENT-4,600,299

N86-32447* c 09 ..... NASA-CASE-ARC-11504-1
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US-PATENT-CLASS-356-73
US-PATENT-4,605,303

N86-32525* c 23 ..... NASA-CASE-ARC-11506-2
US-PATENT-APPL-SN-641142
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US-PATENT-CLASS-528-124
US-PATENT-CLASS-528-337
US-PATENT-CLASS-528-352
US-PATENT-CLASS-528-399
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US-PATENT-CLASS-528-407
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N86-32526*# c 23 ..... NAS 1.71:LAR-13555-1
NASA-CASE-LAR-13555-1
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N86-32550* c 26 ..... NASA-CASE-GSC-12880-1
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US-PATENT-CLASS-427-421
US-PATENT-CLASS-427-427
US-PATENT-4,552,784

N86-32551* c 26 ..... NASA-CASE-NPO-15658-1
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US-PATENT-CLASS-264-5
US-PATENT-CLASS-425-6
US-PATENT-CLASS-65-142
US-PATENT-CLASS-65-21.2
US-PATENT-CLASS-73-505
US-PATENT-4,553,917

N86-32568*# c 27 ..... NASA-CASE-ARC-11512-2
US-PATENT-APPL-SN-641153
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US-PATENT-CLASS-528-337
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US-PATENT-CLASS-528-347
US-PATENT-CLASS-564-15
US-PATENT-CLASS-568-14
US-PATENT-4,602,081

N86-32569* c 27 ..... NASA-CASE-LEW-14072-2
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US-PATENT-CLASS-204-192D
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US-PATENT-4,604,181

N86-32587* c 31 ..... NASA-CASE-LEW-14130-1
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US-PATENT-CLASS-204-192D
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US-PATENT-CLASS-313-107
US-PATENT-CLASS-315-5.38
US-PATENT-CLASS-427-39
US-PATENT-4,607,193

N86-32589*# c 31 ..... NAS 1.71:MFS-28153-1
NASA-CASE-MFS-28153-1
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N86-32624* c 33 ..... NASA-CASE-GSC-12958-1
US-PATENT-APPL-SN-727035
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US-PATENT-CLASS-331-116R
US-PATENT-CLASS-331-66
US-PATENT-CLASS-374-183
US-PATENT-4,603,306

N86-32695*# c 35 ..... NASA-CASE-NPO-16479-ICU
US-PATENT-APPL-SN-719794
US-PATENT-CLASS-73-502
US-PATENT-CLASS-73-521
US-PATENT-4,602,509

N86-32696* c 35 ..... NASA-CASE-LAR-13294-1
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US-PATENT-CLASS-73-147
US-PATENT-CLASS-73-862.04
US-PATENT-CLASS-73-862.61
US-PATENT-4,604,903

N86-32697* c 35 ..... NAS 1.71:ARC-11510-1
NASA-CASE-ARC-11510-1
US-PATENT-APPL-SN-602049
US-PATENT-CLASS-356-28.5
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US-PATENT-CLASS-356-73
US-PATENT-CLASS-434-4
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N86-32698* c 35 ..... NASA-CASE-MFS-25833-1
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US-PATENT-CLASS-324-238
US-PATENT-CLASS-324-240
US-PATENT-CLASS-324-262
US-PATENT-CLASS-73-37.5
US-PATENT-4,551,677

N86-32736*# c 37 ..... NASA-CASE-MFS-19796-1
US-PATENT-APPL-SN-770920
US-PATENT-CLASS-138-97
US-PATENT-CLASS-165-76
US-PATENT-CLASS-228-119
US-PATENT-CLASS-29-402.16
US-PATENT-4,605,155

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US-PATENT-CLASS-52-632
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US-PATENT-CLASS-52-646
US-PATENT-4,604,844

N86-32738* c 37 ..... NASA-CASE-MFS-28059-1
US-PATENT-APPL-SN-709255
US-PATENT-CLASS-417-475
US-PATENT-4,604,038

N86-32875* c 44 ..... NASA-CASE-LEW-14177-1
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US-PATENT-CLASS-136-261
US-PATENT-CLASS-148-1.5
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US-PATENT-CLASS-357-91

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N87-10231*# c 33 ..... NAS 1.71:NPO-16784-1
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US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-52
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N87-14314* c 05 ..... NASA-CASE-LAR-13173-1
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US-PATENT-CLASS-244-17.27
US-PATENT-CLASS-248-638
US-PATENT-CLASS-89-1.54
US-PATENT-4,616,793
N87-14355* c 09 ..... NASA-CASE-MFS-28057-1
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US-PATENT-APPL-SN-588039
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US-PATENT-CLASS-16-370
US-PATENT-CLASS-403-102
US-PATENT-CLASS-403-119
US-PATENT-CLASS-403-146
US-PATENT-CLASS-403-163
US-PATENT-CLASS-403-85
US-PATENT-4,615,637
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US-PATENT-CLASS-239-425
US-PATENT-CLASS-60-258
US-PATENT-CLASS-60-746
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N87-14482* c 26 ..... NASA-CASE-LEW-13834-1
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US-PATENT-CLASS-420-460
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N87-14515* c 27 ..... NASA-CASE-LAR-13316-2
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US-PATENT-4,622,182
N87-14516* c 27 ..... NASA-CASE-LAR-13318-1
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US-PATENT-CLASS-428-447
US-PATENT-CLASS-528-26
US-PATENT-4,624,888
N87-14559* c 32 ..... NASA-CASE-LAR-13310-1
US-PATENT-APPL-SN-709257
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US-PATENT-CLASS-367-99
US-PATENT-CLASS-73-597
US-PATENT-CLASS-73-615
US-PATENT-4,624,142
N87-14594* c 33 ..... NASA-CASE-NPO-16299-1
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US-PATENT-CLASS-356-389
US-PATENT-4,623,255
N87-14669* c 35 ..... NASA-CASE-LAR-13268-1
US-PATENT-APPL-SN-727034
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US-PATENT-CLASS-356-301
US-PATENT-4,624,561
N87-14670* c 35 ..... NASA-CASE-MFS-25981-1
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US-PATENT-CLASS-73-462
US-PATENT-CLASS-73-473
US-PATENT-CLASS-73-477
US-PATENT-4,619,142
N87-14671* c 35 ..... NASA-CASE-GSC-12956-1
US-PATENT-APPL-SN-745977
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US-PATENT-CLASS-148-188
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US-PATENT-CLASS-148-190
US-PATENT-CLASS-29-580
US-PATENT-CLASS-29-591
US-PATENT-4,618,380
N87-14704*# c 37 ..... NAS 1.71:NPO-16892-1-CU
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N87-14863*# c 60 ..... NAS 1.71:MSC-20964-1
NASA-CASE-MSC-20964-1
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N87-14971* c 74 ..... NASA-CASE-MFS-26000-1
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US-PATENT-CLASS-372-61
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N87-15304* c 27 ..... NASA-CASE-ARC-11429-4CU
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N87-15390*# c 32 ..... NAS 1.71:NPO-16632-1-CU
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N87-15413*# c 33 ..... NAS 1.71:NPO-16932-1
NASA-CASE-NPO-16932-1CU
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N87-15465*# c 37 ..... NAS 1.71:MSC-20761-1
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N87-15882* c 76 ..... NASA-CASE-NPO-15813-2
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US-PATENT-CLASS-29-576-J
US-PATENT-CLASS-29-576-W
US-PATENT-CLASS-29-578
US-PATENT-4,612,072
N87-16793* c 02 ..... NASA-CASE-LAR-13255-1
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US-PATENT-CLASS-244-200
US-PATENT-CLASS-244-204
US-PATENT-CLASS-244-35R
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US-PATENT-CLASS-244-55
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US-PATENT-CLASS-340-870.18
US-PATENT-CLASS-371-63
US-PATENT-CLASS-375-88
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US-PATENT-CLASS-546-346
US-PATENT-CLASS-546-350
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N87-16909* c 27 ..... NASA-CASE-ARC-11428-2
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US-PATENT-CLASS-428-473.5
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US-PATENT-CLASS-428-704
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US-PATENT-4,634,759
N87-16918* c 31 ..... NASA-CASE-ARC-11363-1
US-PATENT-APPL-SN-500046
US-PATENT-CLASS-52-126.5
US-PATENT-CLASS-52-309.15
US-PATENT-CLASS-52-391
US-PATENT-CLASS-52-511
US-PATENT-CLASS-52-814
US-PATENT-4,637,181
N87-17026* c 36 ..... NASA-CASE-ARC-11547-1
US-PATENT-APPL-SN-692745
US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-28.5
US-PATENT-4,632,548
N87-17034* c 37 ..... NASA-CASE-NPO-16321-1CU
US-PATENT-APPL-SN-692802
US-PATENT-CLASS-305-36
US-PATENT-CLASS-305-51
US-PATENT-CLASS-305-58PC
US-PATENT-CLASS-305-58R
US-PATENT-CLASS-474-220
US-PATENT-4,626,046
N87-17035* c 37 ..... NASA-CASE-MSC-20857-1
US-PATENT-APPL-SN-783886
US-PATENT-CLASS-134-166C
US-PATENT-CLASS-134-93
US-PATENT-CLASS-210-282
US-PATENT-4,635,663
N87-17036* c 37 ..... NASA-CASE-MSC-20162-1
US-PATENT-APPL-SN-764805
US-PATENT-CLASS-135-903
US-PATENT-CLASS-160-23R
US-PATENT-CLASS-160-265
US-PATENT-CLASS-244-121
US-PATENT-CLASS-244-158R
US-PATENT-CLASS-296-100
US-PATENT-4,637,447
N87-17037* c 37 ..... NASA-CASE-MSC-20475-1
US-PATENT-APPL-SN-725689
US-PATENT-CLASS-192-46
US-PATENT-CLASS-192-67R
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N87-17038* c 37 ..... NASA-CASE-GSC-12957-1
US-PATENT-APPL-SN-800193
US-PATENT-CLASS-310-90.5
US-PATENT-4,634,191
N87-17399* c 44 ..... NASA-CASE-NPO-16526-1CU
US-PATENT-APPL-SN-809975
US-PATENT-CLASS-136-249
US-PATENT-4,631,352
N87-17493* c 74 ..... NASA-CASE-MFS-29134-1
US-PATENT-APPL-SN-783890
US-PATENT-CLASS-219-124.34
US-PATENT-CLASS-219-130.01
US-PATENT-4,633,060
N87-18679*# c 29 ..... NAS 1.71:MFS-28139-1
NASA-CASE-MFS-28139-1
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N87-18692*# c 32 ..... NAS 1.71:MSC-20865-1
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N87-18817*# c 37 ..... NAS 1.71:MFS-28161-1
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US-PATENT-APPL-SN-942159
N87-18818*# c 37 ..... NAS 1.71:MSC-20907-1
NASA-CASE-MSC-20907-1
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N87-20999* c 08 ..... NASA-CASE-LAR-13280-1
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US-PATENT-CLASS-65-134
US-PATENT-CLASS-65-136
US-PATENT-CLASS-65-2
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US-PATENT-CLASS-528-229
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US-PATENT-CLASS-528-327
US-PATENT-CLASS-528-331
US-PATENT-CLASS-528-362
US-PATENT-4,649,189
N87-21159* c 31 ..... NASA-CASE-NPO-16393-1-CU
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US-PATENT-CLASS-62-384
US-PATENT-CLASS-62-48
US-PATENT-CLASS-62-514-R
US-PATENT-4,641,499
N87-21160* c 31 ..... NASA-CASE-LEW-13899-1
US-PATENT-APPL-SN-775968
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US-PATENT-CLASS-156-643
US-PATENT-CLASS-156-646
US-PATENT-CLASS-156-659.1
US-PATENT-CLASS-156-661.1
US-PATENT-CLASS-156-904
US-PATENT-CLASS-204-298
US-PATENT-4,620,898
N87-21206* c 32 ..... NASA-CASE-LAR-13455-1
US-PATENT-APPL-SN-804040
US-PATENT-CLASS-250-341
US-PATENT-CLASS-374-122
US-PATENT-CLASS-374-9
US-PATENT-4,645,358
N87-21207* c 32 ..... NASA-CASE-NPO-16256-1
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US-PATENT-CLASS-329-107
US-PATENT-CLASS-375-110
US-PATENT-CLASS-375-120
US-PATENT-CLASS-375-23
US-PATENT-CLASS-455-608
US-PATENT-4,648,133

N87-21232* c 33 ..... NASA-CASE-GSC-13018-1
US-PATENT-APPL-SN-862959
US-PATENT-CLASS-331-116-R
US-PATENT-CLASS-331-117-R
US-PATENT-CLASS-331-56
US-PATENT-4,660,000

N87-21233* c 33 ..... NASA-CASE-MFS-28080-1
US-PATENT-APPL-SN-775548
US-PATENT-CLASS-318-138
US-PATENT-CLASS-318-254
US-PATENT-CLASS-318-439
US-PATENT-4,644,234

N87-21234* c 33 ..... NASA-CASE-LEW-13935-1
US-PATENT-APPL-SN-700255
US-PATENT-CLASS-250-423-R
US-PATENT-CLASS-315-111.81
US-PATENT-4,642,523

N87-21235* c 33 ..... NASA-CASE-LAR-13151-1
US-PATENT-APPL-SN-683101
US-PATENT-CLASS-307-261
US-PATENT-CLASS-307-354
US-PATENT-CLASS-328-147
US-PATENT-CLASS-328-164
US-PATENT-CLASS-328-28
US-PATENT-4,652,833

N87-21255* c 34 ..... NASA-CASE-ARC-11631-1
US-PATENT-APPL-SN-846428
US-PATENT-CLASS-239-426
US-PATENT-CLASS-239-434
US-PATENT-CLASS-239-545
US-PATENT-CLASS-73-147
US-PATENT-4,648,267

N87-21304* c 35 ..... NASA-CASE-NPO-15617-1
US-PATENT-APPL-SN-403849
US-PATENT-CLASS-74-424.8-R
US-PATENT-CLASS-74-441
US-PATENT-CLASS-74-458
US-PATENT-CLASS-74-468
US-PATENT-CLASS-74-89.15
US-PATENT-4,586,394

N87-21332* c 37 ..... NASA-CASE-MFS-28058-1
US-PATENT-APPL-SN-751691
US-PATENT-CLASS-137-606
US-PATENT-CLASS-251-165
US-PATENT-4,657,044

N87-21333* c 37 ..... NASA-CASE-MFS-25956-1
US-PATENT-APPL-SN-580397
US-PATENT-CLASS-248-316.4
US-PATENT-CLASS-248-550
US-PATENT-4,582,289

N87-21334* c 37 ..... NASA-CASE-NPO-16423-1-CU
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US-PATENT-CLASS-228-124
US-PATENT-CLASS-228-208
US-PATENT-CLASS-228-209
US-PATENT-CLASS-427-229
US-PATENT-4,650,108

N87-21410* c 44 ..... NASA-CASE-MFS-25978-1
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US-PATENT-CLASS-307-131
US-PATENT-CLASS-307-31
US-PATENT-CLASS-307-64
US-PATENT-CLASS-307-66
US-PATENT-CLASS-307-80
US-PATENT-CLASS-318-107
US-PATENT-CLASS-318-161
US-PATENT-4,649,287

N87-21591* c 60 ..... NASA-CASE-NPO-15982-1
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US-PATENT-CLASS-371-37
US-PATENT-CLASS-371-40
US-PATENT-4,649,541

N87-21652* c 71 ..... NASA-CASE-LAR-13111-1-CU
US-PATENT-APPL-SN-751695
US-PATENT-CLASS-73-583
US-PATENT-CLASS-73-589
US-PATENT-CLASS-73-599
US-PATENT-4,644,794

N87-21653* c 71 ..... NASA-CASE-LAR-13440-1
US-PATENT-APPL-SN-775989
US-PATENT-CLASS-73-1-DV
US-PATENT-CLASS-73-599
US-PATENT-4,649,750

N87-21660* c 72 ..... NASA-CASE-NPO-16061-1-CU
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US-PATENT-CLASS-250-424
US-PATENT-CLASS-250-427
US-PATENT-CLASS-313-359.1
US-PATENT-CLASS-313-361.1
US-PATENT-CLASS-313-362.1
US-PATENT-4,649,278

N87-21661* c 72 ..... NASA-CASE-NPO-16640-1-CU
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US-PATENT-CLASS-250-251
US-PATENT-CLASS-250-396-R
US-PATENT-CLASS-250-423-P
US-PATENT-CLASS-376-127
US-PATENT-4,649,273

N87-21679* c 74 ..... NASA-CASE-GSC-12897-1
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US-PATENT-CLASS-350-6.5
US-PATENT-4,647,144

N87-21755* c 85 ..... NASA-CASE-KSC-11282-1
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US-PATENT-CLASS-180-305
US-PATENT-CLASS-280-47.11
US-PATENT-CLASS-296-20
US-PATENT-CLASS-5-81-R
US-PATENT-CLASS-60-415
US-PATENT-4,646,860

N87-22678* c 06 ..... NASA-CASE-LAR-12984-1
US-PATENT-APPL-SN-578387
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US-PATENT-CLASS-340-945
US-PATENT-CLASS-340-971
US-PATENT-CLASS-340-975
US-PATENT-CLASS-73-178-R
US-PATENT-4,663-627

N87-22845* c 27 ..... NASA-CASE-ARC-11429-2-CU
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US-PATENT-APPL-SN-725727
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US-PATENT-CLASS-524-548
US-PATENT-CLASS-525-182
US-PATENT-CLASS-526-262
US-PATENT-4,526,925
US-PATENT-4,647,615

N87-22847* c 27 ..... NASA-CASE-LAR-13444-1-CU
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US-PATENT-CLASS-564-330
US-PATENT-CLASS-564-396
US-PATENT-CLASS-564-430
US-PATENT-4,663,483

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US-PATENT-CLASS-528-184
US-PATENT-CLASS-528-192
US-PATENT-CLASS-528-193
US-PATENT-4,661,558

N87-22894* c 33 ..... NASA-CASE-NPO-16337-1-CU
US-PATENT-APPL-SN-683111
US-PATENT-CLASS-324-158-D
US-PATENT-CLASS-324-158-R
US-PATENT-4,661,770

N87-22895* c 33 ..... NASA-CASE-GSC-12961-1
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US-PATENT-CLASS-330-107
US-PATENT-CLASS-330-294
US-PATENT-CLASS-331-177-R
US-PATENT-CLASS-333-214
US-PATENT-CLASS-333-217
US-PATENT-4,644,306

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US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-165-104.25
US-PATENT-CLASS-165-104.26
US-PATENT-CLASS-165-34
US-PATENT-4,664,177

N87-22953* c 35 ..... NASA-CASE-NPO-16544-1-CU
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US-PATENT-CLASS-73-336.5
US-PATENT-4,662,220

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US-PATENT-APPL-SN-698279
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US-PATENT-CLASS-411-424
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US-PATENT-CLASS-411-531
US-PATENT-4,572,699
US-PATENT-4,650,385

N87-22977* c 37 ..... NASA-CASE-MFS-25964-2
US-PATENT-APPL-SN-692801
US-PATENT-APPL-SN-853361
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US-PATENT-CLASS-285-81
US-PATENT-CLASS-285-85
US-PATENT-CLASS-285-91
US-PATENT-4,655,482

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US-PATENT-CLASS-244/161
US-PATENT-4,664,344

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US-PATENT-CLASS-356-350
US-PATENT-4,662,751

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US-PATENT-CLASS-156-617-H
US-PATENT-CLASS-156-617-SP
US-PATENT-4,654,110

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US-PATENT-CLASS-416-158
US-PATENT-4,669,958

N87-23698* c 23 ..... NASA-CASE-ARC-11643-1-SB
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US-PATENT-CLASS-423-284
US-PATENT-4,676,962

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US-PATENT-CLASS-428-473.5
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US-PATENT-CLASS-136-255
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-35
US-PATENT-4,665,277

N87-23904* c 33 ..... NASA-CASE-GSC-12773-2
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US-PATENT-CLASS-310-30
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N87-23941*# c 35 ..... NAS 1.71:LAR-13689-1
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US-PATENT-CLASS-373-15
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N87-23960* c 36 ..... NASA-CASE-NPO-16542-1-CU
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US-PATENT-CLASS-350-3.81
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US-PATENT-CLASS-372-18
US-PATENT-CLASS-372-43
US-PATENT-4,677,629

N87-23961* c 36 ..... NASA-CASE-NPO-16433-1
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US-PATENT-CLASS-372-68
US-PATENT-CLASS-372-81
US-PATENT-4,677,636

N87-23970* c 37 ..... NASA-CASE-NPO-15482-1
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US-PATENT-CLASS-337-393
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N87-23981* c 37 ..... NASA-CASE-MSC-20797-1
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US-PATENT-CLASS-156-307.7

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US-PATENT-CLASS-250-352
US-PATENT-CLASS-62-514-R
US-PATENT-4,672,202
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US-PATENT-CLASS-60-638
US-PATENT-CLASS-89-1.14
US-PATENT-4,669,354
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US-PATENT-CLASS-239-596
US-PATENT-CLASS-239-600
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US-PATENT-CLASS-351-208
US-PATENT-CLASS-354-62
US-PATENT-4,669,836
N87-25334* c 09 ..... NASA-CASE-LAR-13522-1-SB
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US-PATENT-CLASS-73-856
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US-PATENT-CLASS-434-34
US-PATENT-4,678,438
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US-PATENT-CLASS-358-133
US-PATENT-CLASS-358-138
US-PATENT-4,682,225
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US-PATENT-CLASS-204-192.23
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US-PATENT-CLASS-428-632
US-PATENT-CLASS-428-651
US-PATENT-CLASS-428-660
US-PATENT-4,681-818
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US-PATENT-CLASS-528-168
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US-PATENT-APPL-SN-066450
N87-25491* c 31 ..... NASA-CASE-MFS-28044-1
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US-PATENT-CLASS-51-281-R
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US-PATENT-CLASS-52-108
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US-PATENT-CLASS-52-646
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N87-25511* c 32 ..... NASA-CASE-NPO-16414-1-CU
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US-PATENT-CLASS-375-101
US-PATENT-CLASS-375-102
US-PATENT-CLASS-375-39
US-PATENT-CLASS-375-54
US-PATENT-CLASS-455-65
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N87-25531* c 33 ..... NASA-CASE-MSC-20187-1
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US-PATENT-CLASS-375-54
US-PATENT-CLASS-375-59
US-PATENT-CLASS-375-76
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N87-25558*# c 35 ..... NASA-CASE-LAR-13564-1
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N87-25561*# c 35 ..... NASA-CASE-LAR-13680-1
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N87-25567* c 36 ..... NASA-CASE-NPO-16497-1-CU
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US-PATENT-CLASS-372-4
US-PATENT-CLASS-372-69
US-PATENT-CLASS-372-99
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US-PATENT-CLASS-137-614.18
US-PATENT-CLASS-251-129.15
US-PATENT-CLASS-251-175
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US-PATENT-CLASS-292-DIG.49
US-PATENT-CLASS-292-201
US-PATENT-CLASS-292-64
US-PATENT-4,682,745
N87-25585*# c 37 ..... NASA-CASE-LEW-14196-2
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N87-25601* c 39 ..... NASA-CASE-MFS-28118-1
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US-PATENT-CLASS-73-810
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N87-25803*# c 62 ..... NASA-CASE-NPO-17058-1-CU
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US-PATENT-APPL-SN-783890
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US-PATENT-CLASS-219-130.01
US-PATENT-CLASS-219-74
US-PATENT-4,633,060
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US-PATENT-CLASS-356-129
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US-PATENT-CLASS-285-421
US-PATENT-CLASS-285-86
US-PATENT-CLASS-403-341
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US-PATENT-CLASS-92-208
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US-PATENT-CLASS-356-256
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US-PATENT-CLASS-356-51
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US-PATENT-CLASS-156-382
US-PATENT-CLASS-156-494
US-PATENT-CLASS-264-291
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US-PATENT-CLASS-558-190
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US-PATENT-CLASS-148-410
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US-PATENT-CLASS-525-436
US-PATENT-CLASS-525-903
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US-PATENT-CLASS-313-506
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US-PATENT-CLASS-318-116
US-PATENT-4,690,353
N87-28867* c 34 ..... NASA-CASE-MSC-20946-1
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US-PATENT-CASE-165-104.26
US-PATENT-CASE-165-13
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US-PATENT-CLASS-285-901
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US-PATENT-CLASS-73-756
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US-PATENT-CLASS-182-63
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US-PATENT-4,685,535
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US-PATENT-CLASS-434-114
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US-PATENT-CLASS-244-130
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US-PATENT-CLASS-244-200
US-PATENT-CLASS-296-1S
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US-PATENT-CLASS-361-222
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US-PATENT-APPL-SN-823713
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US-PATENT-CLASS-204-192.31
US-PATENT-CLASS-427-38
US-PATENT-4,704,168

N88-14223* c 31 ..... NASA-CASE-NPO-16734-1-CU
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US-PATENT-CLASS-62-48
US-PATENT-CLASS-62-514R
US-PATENT-4,697,425
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US-PATENT-APPL-SN-904513
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US-PATENT-CLASS-439-578
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US-PATENT-APPL-SN-904812
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US-PATENT-CLASS-228-109
US-PATENT-CLASS-228-2.5
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US-PATENT-CLASS-422-260
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US-PATENT-CLASS-437-8
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US-PATENT-CLASS-525-905
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US-PATENT-CLASS-502-53
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US-PATENT-CLASS-55-205
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US-PATENT-CLASS-55-46
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US-PATENT-CLASS-342-195
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US-PATENT-CLASS-357-81
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US-PATENT-CLASS-165-905
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US-PATENT-CLASS-250-396-R
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US-PATENT-CLASS-901-39
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US-PATENT-CLASS-530-422
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US-PATENT-CLASS-422-249
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US-PATENT-CLASS-528-176
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US-PATENT-CLASS-210-95
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US-PATENT-APPL-SN-237657
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US-PATENT-CLASS-357-90
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US-PATENT-CLASS-194-82.29
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US-PATENT-CLASS-89-1.57
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US-PATENT-CLASS-364-975.5
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US-PATENT-CLASS-181-290
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US-PATENT-CLASS-318-615
US-PATENT-CLASS-318-618
US-PATENT-CLASS-388-821
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US-PATENT-CLASS-165-78
US-PATENT-CLASS-165-96
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US-PATENT-CLASS-55-203
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US-PATENT-CLASS-422-98
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US-PATENT-CLASS-436-143
US-PATENT-CLASS-436-55
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US-PATENT-CLASS-29-888.046
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US-PATENT-CLASS-92-213
US-PATENT-CLASS-92-222
US-PATENT-CLASS-92-248
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US-PATENT-CLASS-350-356
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US-PATENT-CLASS-244-160
US-PATENT-CLASS-244-161
US-PATENT-CLASS-244-172

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NASA-CASE-LEW-14520-1
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US-PATENT-CLASS-315-3.5
US-PATENT-CLASS-331-82

N90-22769* c 35 .... INT-PATENT-CLASS-B64D-1/00
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US-PATENT-CLASS-244-138A
US-PATENT-CLASS-358-109

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US-PATENT-CLASS-358-113
US-PATENT-CLASS-358-93
US-PATENT-CLASS-374-162

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US-PATENT-CLASS-156-DIG.72
US-PATENT-CLASS-156-600
US-PATENT-CLASS-156-608
US-PATENT-CLASS-422-245

N90-23390* c 05 .... INT-PATENT-CLASS-B64C-9/02
INT-PATENT-CLASS-B64C-9/08
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US-PATENT-CLASS-244-46
US-PATENT-CLASS-244-75R
US-PATENT-CLASS-244-90R
US-PATENT-4,917,333

N90-23415* c 09 ... INT-PATENT-CLASS-C21D-1/09
NASA-CASE-MFS-28281-1
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US-PATENT-CLASS-148-902
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US-PATENT-4,902,354

N90-23475* c 23 .... INT-PATENT-CLASS-C07S-9/40
NASA-CASE-ARC-11425-3
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US-PATENT-APPL-SN-493864
US-PATENT-APPL-SN-522629
US-PATENT-APPL-SN-641152
US-PATENT-CLASS-558-193
US-PATENT-4,886,896

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US-PATENT-CLASS-428-627
US-PATENT-CLASS-428-632
US-PATENT-CLASS-428-666
US-PATENT-CLASS-428-680
US-PATENT-4,877,689

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US-PATENT-CLASS-419-36
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US-PATENT-CLASS-419-8
US-PATENT-CLASS-428-551
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US-PATENT-CLASS-75-228
US-PATENT-4,904,538

N90-23497* c 25 ..... NASA-CASE-LEW-14345-2
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US-PATENT-APPL-SN-924474
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US-PATENT-CLASS-562-413
US-PATENT-CLASS-562-415
US-PATENT-CLASS-562-417
US-PATENT-4,885,116

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US-PATENT-CLASS-502-218
US-PATENT-CLASS-502-226
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US-PATENT-CLASS-502-241
US-PATENT-CLASS-502-245
US-PATENT-CLASS-502-324
US-PATENT-4,912,082

N90-23541* c 27 .. INT-PATENT-CLASS-F28D-15/02
NASA-CASE-GSC-13199-1
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US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-905
US-PATENT-4,883,116

N90-23544* c 27 . INT-PATENT-CLASS-G01N-27/72
INT-PATENT-CLASS-G01R-27/00
INT-PATENT-CLASS-G01R-33/12
NASA-CASE-LAR-13465-1
US-PATENT-APPL-SN-133413
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US-PATENT-CLASS-324-234
US-PATENT-CLASS-324-236
US-PATENT-CLASS-526-60
US-PATENT-4,891,591

N90-23545* c 27 ..... NASA-CASE-LAR-14188-1
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US-PATENT-APPL-SN-328392
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-171-175
US-PATENT-CLASS-528-212
US-PATENT-CLASS-548-520
US-PATENT-4,889,912

N90-23546* c 27 ..... NASA-CASE-LAR-13902-1
US-PATENT-APPL-SN-239259
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US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-185
US-PATENT-CLASS-528-188
US-PATENT-CLASS-528-353
US-PATENT-4,895,972

N90-23566* c 27 .. INT-PATENT-CLASS-B29B-33/02
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US-PATENT-CLASS-264-28
US-PATENT-CLASS-264-43
US-PATENT-CLASS-264-6
US-PATENT-4,919,852

N90-23586* c 31 .... INT-PATENT-CLASS-B23K-9/16
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US-PATENT-CLASS-219-75
US-PATENT-4,879,446

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US-PATENT-CLASS-165-41
US-PATENT-CLASS-222-187
US-PATENT-CLASS-239-145
US-PATENT-CLASS-417-53
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US-PATENT-4,877,082

N90-23635* c 33 .... INT-PATENT-CLASS-H03B-5/12
NASA-CASE-GSC-13173-1
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US-PATENT-4,873,498

N90-23636* c 33 .... INT-PATENT-CLASS-G06F-1/02
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US-PATENT-CLASS-364-746.1
US-PATENT-4,890,252

N90-23700* c 34 .... INT-PATENT-CLASS-B29B-9/10
NASA-CASE-NPO-17203-1-CU
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US-PATENT-CLASS-425-5
US-PATENT-CLASS-425-6
US-PATENT-CLASS-425-804
US-PATENT-4,902,450

N90-23706* c 35 .... INT-PATENT-CLASS-A61B-5/00
NASA-CASE-LAR-13775-1
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US-PATENT-CLASS-128-675
US-PATENT-CLASS-128-748
US-PATENT-CLASS-128-778
US-PATENT-4,873,990

N90-23707* c 35 ... INT-PATENT-CLASS-G01M-9/00
NASA-CASE-LAR-13628-1
US-PATENT-APPL-SN-251438
US-PATENT-CLASS-340-825.69
US-PATENT-CLASS-73-147
US-PATENT-4,896,533

N90-23712* c 35 ... INT-PATENT-CLASS-G01N-3/32
NASA-CASE-LEW-14124-1
US-PATENT-APPL-SN-396263
US-PATENT-CLASS-73-799
US-PATENT-CLASS-73-845
US-PATENT-4,916,954

N90-23713* c 35 ..... NASA-CASE-LAR-14056-1
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US-PATENT-APPL-SN-251073
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US-PATENT-CLASS-364-900
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US-PATENT-CLASS-364-925.1
US-PATENT-CLASS-364-933.8
US-PATENT-CLASS-364-934
US-PATENT-4,918,652

N90-23742* c 37 .... INT-PATENT-CLASS-F03D-9/00
NASA-CASE-LAR-13434-1
US-PATENT-APPL-SN-246594
US-PATENT-CLASS-290-44
US-PATENT-CLASS-290-55
US-PATENT-CLASS-416-9
US-PATENT-4,894,554

N90-23751* c 37 . INT-PATENT-CLASS-B64D-33/04
INT-PATENT-CLASS-F16J-15/46
NASA-CASE-LEW-14695-1
US-PATENT-APPL-SN-292146
US-PATENT-CLASS-239-265.11
US-PATENT-CLASS-277-158
US-PATENT-CLASS-277-34
US-PATENT-4,917,302

N90-23756* c 38 . INT-PATENT-CLASS-G01B-15/06
NASA-CASE-LAR-13724-1
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US-PATENT-CLASS-378-51
US-PATENT-CLASS-378-58
US-PATENT-4,899,356

N90-24150* c 76 . INT-PATENT-CLASS-G01N-21/64
INT-PATENT-CLASS-G01N-21/84
NASA-CASE-LAR-13963-1
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US-PATENT-CLASS-356-73.1
US-PATENT-4,890,915

N90-24168* c 76 .. INT-PATENT-CLASS-B32B-15/08
INT-PATENT-CLASS-B32B-7/02
NASA-CASE-LAR-13678-1
US-PATENT-APPL-SN-176547
US-PATENT-CLASS-340-692
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US-PATENT-CLASS-428-450
US-PATENT-CLASS-428-457
US-PATENT-CLASS-428-901
US-PATENT-4,917,940

N90-24169* c 76 ..... NASA-CASE-MFS-28182-1
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US-PATENT-CLASS-156-DIG.62
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US-PATENT-CLASS-156-601
US-PATENT-CLASS-156-607
US-PATENT-CLASS-422-245
US-PATENT-CLASS-422-50
US-PATENT-4,919,899

N90-25196* c 24 ..... NASA-CASE-LAR-13562-1
US-PATENT-APPL-SN-921572
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US-PATENT-CLASS-138-149
US-PATENT-CLASS-138-153
US-PATENT-CLASS-428-35.9
US-PATENT-CLASS-428-367
US-PATENT-CLASS-428-376
US-PATENT-CLASS-428-379
US-PATENT-4,923,751

N90-25197* c 24 ..... NASA-CASE-LAR-13225-1
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US-PATENT-CLASS-156-249
US-PATENT-CLASS-156-289
US-PATENT-CLASS-156-344
US-PATENT-CLASS-427-272
US-PATENT-CLASS-427-282
US-PATENT-CLASS-427-290
US-PATENT-4,923,545

N90-25340* c 36 ... INT-PATENT-CLASS-G01P-3/36
NASA-CASE-ARC-11876-1
US-PATENT-APPL-SN-257593
US-PATENT-CLASS-356-28
US-PATENT-CLASS-356-28.5
US-PATENT-4,925,297

N90-25498* c 54 ..... NASA-CASE-MSC-21366-1
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US-PATENT-CLASS-428-290
US-PATENT-CLASS-428-328
US-PATENT-CLASS-428-422

US-PATENT-CLASS-428-447
US-PATENT-CLASS-428-458
US-PATENT-CLASS-428-474.4
US-PATENT-4,923,741
N90-25583* c 60 .... INT-PATENT-CLASS-H02L-9/04
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US-PATENT-APPL-SN-279630
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US-PATENT-CLASS-380-45
US-PATENT-CLASS-380-49
US-PATENT-4,926,481
N90-26073*# c 20 ..... NAS 1.71:MSC-21542-1
NASA-CASE-MSC-21542-1
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N90-26168* c 31 .... INT-PATENT-CLASS-B23K-9/24
NASA-CASE-MFS-29491-1
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US-PATENT-CLASS-219-75
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N90-26176*# c 31 ..... NAS 1.71:NPO-17569-1-CU
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US-PATENT-APPL-SN-545236
N90-26304*# c 35 ..... NAS 1.71:MFS-28425-1
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N90-26339*# c 37 ..... NAS 1.71:NPO-17917-1-CU
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US-PATENT-APPL-SN-545015
N90-26384*# c 43 ..... NAS 1.71:NPO-17970-1-CU
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N90-26518*# c 60 ..... NAS 1.71:NPO-17939-1-CU
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N90-26519*# c 60 ..... NAS 1.71:NPO-17954-1-CU
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US-PATENT-APPL-SN-545019
N90-26685*# c 76 ..... NAS 1.71:NPO-17723-1-CU
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N90-26858*# c 18 ..... NAS 1.71:MSC-21420-1
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N90-26861*# c 18 ..... NAS 1.71:MFS-28421-1
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N90-26880*# c 24 ..... NAS 1.71:NPO-17858-1-CU
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US-PATENT-APPL-SN-503487
N90-26881*# c 24 ..... NAS 1.71:LAR-14338-1
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US-PATENT-APPL-SN-429514
N90-26940*# c 26 ..... NAS 1.71:MFS-26083-1-CU
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N90-26952*# c 27 ..... NAS 1.71:NPO-17826-1-CU
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US-PATENT-APPL-SN-479485
N90-26953*# c 27 ..... NAS 1.71:LAR-14159-1-CU
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US-PATENT-APPL-SN-439317
N90-26954*# c 27 ..... NAS 1.71:LAR-14145-1
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N90-26955*# c 27 ..... NAS 1.71:LAR-14339-1
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N90-26956*# c 27 ..... NAS 1.71:LAR-14198-1
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N90-27016*# c 32 ..... NAS 1.71:NPO-17911-1-CU
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N90-27040*# c 33 ..... NAS 1.71:NPO-17897-1-CU
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N90-27070*# c 34 ..... NAS 1.71:NPO-17625-1-CU
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N90-27071*# c 34 ..... NAS 1.71:LAR-14078-1-CU
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N90-27072*# c 34 ..... NAS 1.71:LAR-14033-1
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N90-27112*# c 37 ..... NAS 1.71:MFS-28384-1
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N90-27114*# c 37 ..... NAS 1.71:LAR-14062-1
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US-PATENT-APPL-SN-423089
N90-27116*# c 37 ..... NAS 1.71:LAR-14142-1
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N90-27239*# c 51 ..... NAS 1.71:NPO-17653-1-CU
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N90-27268*# c 60 ..... NAS 1.71:NPO-17629-1-CU
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N90-27340*# c 61 ..... NAS 1.71:MSC-21379-1-SB
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N90-27341*# c 61 ..... NAS 1.71:NPO-17845-1-CU
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US-PATENT-APPL-SN-523692
N90-27385*# c 62 ..... NAS 1.71:NPO-17803-1-CU
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US-PATENT-APPL-SN-473024
N90-27487*# c 74 ..... NAS 1.71:NPO-17612-1-CU
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US-PATENT-APPL-SN-480385
N90-27488*# c 74 ..... NAS 1.71:NPO-17913-1-CU
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N90-27517*# c 76 ..... NAS 1.71:NPO-17724-1-CU
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N90-27518*# c 76 ..... NAS 1.71:NPO-17835-1-CU
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N90-27594*# c 89 ..... NAS 1.71:MFS-28013-3
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N90-27595*# c 89 ..... NAS 1.71:MFS-28013-4
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N91-13481*# c 18 ..... NAS 1.71:LAR-13780-1
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N91-13483*# c 18 ..... NAS 1.71:MSC-21536-1
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N91-13500*# c 24 ..... NAS 1.71:LEW-14999-1
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N91-13502*# c 24 ..... NAS 1.71:LEW-14921-1
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N91-13527*# c 26 ..... NAS 1.71:LAR-14239-1
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N91-13558*# c 27 ..... NAS 1.71:LAR-14271-1-CU
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US-PATENT-APPL-SN-567025
N91-13559*# c 27 ..... NAS 1.71:LAR-14163-1
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N91-13560*# c 27 ..... NAS 1.71:LAR-14330-1-CU
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N91-13561*# c 27 ..... NAS 1.71:LAR-14351-1
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N91-13562*# c 27 ..... NAS 1.71:LAR-14036-1
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N91-13566*# c 27 ..... NAS 1.71:LEW-15027-1
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N91-13594*# c 32 ..... NAS 1.71:NPO-17904-1-CU
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N91-13595*# c 32 ..... NAS 1.71:NPO-17941-1-CU
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N91-13598*# c 32 ..... NAS 1.71:LEW-14945-1
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N91-13621*# c 33 ..... NAS 1.71:NPO-17922-1-CU
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US-PATENT-APPL-SN-596139
N91-13622*# c 33 ..... NAS 1.71:NPO-18075-1-CU
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US-PATENT-APPL-SN-555865
N91-13658*# c 34 ..... NAS 1.71:NPO-17479-1-CU
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US-PATENT-APPL-SN-568127
N91-13668*# c 34 ..... NAS 1.71:LEW-14162-1
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US-PATENT-APPL-SN-501893
N91-13684*# c 35 ..... NAS 1.71:LAR-14340-1-CU
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US-PATENT-APPL-SN-575695
N91-13686*# c 35 ..... NAS 1.71:LAR-14088-1
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N91-13691*# c 35 ..... NAS 1.71:SSC-00006-1
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US-PATENT-APPL-SN-489997
N91-13694* c 35 ... INT-PATENT-CLASS-G03H-1/02
NASA-CASE-LAR-13989-1
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US-PATENT-CLASS-350-320
US-PATENT-CLASS-350-354
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N91-13724*# c 37 ..... NAS 1.71:NPO-17800-1-CU
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N91-13729*# c 37 ..... NAS 1.71:MFS-28406-1
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US-PATENT-APPL-SN-524110
N91-13731*# c 37 ..... NAS 1.71:MFS-28328-1
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US-PATENT-APPL-SN-458065
N91-13732*# c 37 ..... NAS 1.71:LEW-14965-1
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US-PATENT-APPL-SN-571062
N91-13733*# c 37 ..... NAS 1.71:SSC-00008-1
NASA-CASE-SSC-00008-1
US-PATENT-APPL-SN-545178
N91-13734*# c 37 ..... NAS 1.71:GSC-13230-1
NASA-CASE-GSC-13230-1
US-PATENT-APPL-SN-531374
N91-13767*# c 39 ..... NAS 1.71:NPO-17914-1-CU
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US-PATENT-APPL-SN-575697
N91-13796*# c 44 ..... NAS 1.71:NPO-18034-1-CU
NASA-CASE-NPO-18034-1-CU
US-PATENT-APPL-SN-568130
N91-13802*# c 44 ..... NAS 1.71:LEW-14731-1
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N91-13860*# c 51 ..... NAS 1.71:MSC-21559-1
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US-PATENT-APPL-SN-317776
N91-13865*# c 52 ..... NAS 1.71:MSC-21675-1
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US-PATENT-APPL-SN-562095
N91-13879*# c 54 ..... NAS 1.71:MSC-21460-1
NASA-CASE-MSC-21460-1
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N91-13888*# c 60 ..... NAS 1.71:NPO-17997-1-CU
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N91-13890*# c 60 ..... NAS 1.71:MSC-21481-1
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N91-13911*# c 61 ..... NAS 1.71:MSC-21737-1
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US-PATENT-APPL-SN-587922
N91-13944*# c 63 ..... NAS 1.71:MSC-21381-1
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US-PATENT-APPL-SN-545235
N91-13996*# c 74 ..... NAS 1.71:LEW-14878-1
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N91-13998*# c 74 ..... NAS 1.71:NPO-17784-1-CU
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US-PATENT-APPL-SN-568129
N91-13999*# c 74 ..... NAS 1.71:MFS-28295-1
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N91-14001*# c 74 ..... NAS 1.71:GSC-13175-1
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N91-14002*# c 74 ..... NAS 1.71:ARC-11916-1-SB
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US-PATENT-APPL-SN-531373
N91-14066*# c 76 ..... NAS 1.71:GSC-13265-1
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US-PATENT-APPL-SN-575694
N91-14096*# c 89 ..... NAS 1.71:MFS-28013-2
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US-PATENT-APPL-SN-545220
N91-14321* c 04 ... INT-PATENT-CLASS-G01S-5/02
NASA-CASE-NPO-17820-1-CU
US-PATENT-APPL-SN-429734
US-PATENT-CLASS-329-306
US-PATENT-CLASS-342-352
US-PATENT-CLASS-342-357
US-PATENT-CLASS-342-418
US-PATENT-CLASS-375-80
US-PATENT-CLASS-375-94
US-PATENT-4,959,656
N91-14345* c 05 . INT-PATENT-CLASS-B64D-33/00
NASA-CASE-LAR-14116-1
US-PATENT-APPL-SN-004304
US-PATENT-APPL-SN-243685
US-PATENT-APPL-SN-264993
US-PATENT-CLASS-244-199
US-PATENT-CLASS-244-58
US-PATENT-CLASS-290-44
US-PATENT-CLASS-290-55
US-PATENT-4,917,332
N91-14356* c 09 ..... NASA-CASE-LAR-13629-1

US-PATENT-APPL-SN-251411
US-PATENT-CLASS-33-263
US-PATENT-CLASS-342-54
US-PATENT-CLASS-356-1
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-364-433
US-PATENT-CLASS-73-147
US-PATENT-4,932,777

N91-14357* c 09 ... INT-PATENT-CLASS-G01M-9/00
NASA-CASE-ARC-11877-1-SB
US-PATENT-APPL-SN-195563
US-PATENT-CLASS-73-147
US-PATENT-4,845,993

N91-14371* c 17 . INT-PATENT-CLASS-G06F-15/20
NASA-CASE-MSC-21170-1
US-PATENT-APPL-SN-182266
US-PATENT-CLASS-324-115
US-PATENT-CLASS-364-487
US-PATENT-CLASS-364-550
US-PATENT-4,974,181

N91-14374* c 18 ... INT-PATENT-CLASS-B64G-1/64
NASA-CASE-MSC-21360-1
US-PATENT-APPL-SN-292131
US-PATENT-CLASS-14-71.5
US-PATENT-CLASS-244-137.2
US-PATENT-CLASS-244-161
US-PATENT-CLASS-405-188
US-PATENT-4,860,975

N91-14412* c 19 .. INT-PATENT-CLASS-G01W-1/00
NASA-CASE-LAR-13392-1-CU
US-PATENT-APPL-SN-369490
US-PATENT-CLASS-73-170R
US-PATENT-4,964,300

N91-14418* c 23 . INT-PATENT-CLASS-C08G-73/10
NASA-CASE-LAR-13965-2-CU
US-PATENT-APPL-SN-221386
US-PATENT-APPL-SN-311551
US-PATENT-CLASS-526-262
US-PATENT-CLASS-528-322
US-PATENT-4,895,915

N91-14419* c 23 INT-PATENT-CLASS-C07D-207/44
NASA-CASE-LAR-14188-2
US-PATENT-APPL-SN-087375
US-PATENT-APPL-SN-328392
US-PATENT-APPL-SN-391692
US-PATENT-CLASS-548-549
US-PATENT-4,937,356

N91-14430* c 24 ... INT-PATENT-CLASS-G01N-3/00
NASA-CASE-LAR-13985-1
US-PATENT-APPL-SN-386172
US-PATENT-CLASS-73-794
US-PATENT-4,926,694

N91-14462* c 26 . INT-PATENT-CLASS-B22D-27/04
NASA-CASE-MFS-28314-1
US-PATENT-APPL-SN-404289
US-PATENT-CLASS-164-122.1
US-PATENT-CLASS-164-338.1
US-PATENT-4,964,453

N91-14489* c 27 . INT-PATENT-CLASS-H02K-44/10
NASA-CASE-NPO-17122-1-CU
US-PATENT-APPL-SN-087376
US-PATENT-CLASS-310-11
US-PATENT-4,928,027

N91-14495* c 28 ..... NASA-CASE-KSC-11304-2
US-PATENT-APPL-SN-603375
US-PATENT-APPL-SN-798713
US-PATENT-CLASS-423-655
US-PATENT-CLASS-48-197R
US-PATENT-CLASS-48-203
US-PATENT-CLASS-48-77
US-PATENT-CLASS-60-39.12
US-PATENT-CLASS-60-39.182
US-PATENT-4,936,869

N91-14508* c 31 .. INT-PATENT-CLASS-B23K-26/00
NASA-CASE-MFS-28294-1
US-PATENT-APPL-SN-396262
US-PATENT-CLASS-219-121.68
US-PATENT-4,965,429

N91-14523* c 32 .. INT-PATENT-CLASS-H04L-27/18
NASA-CASE-NPO-16904-2-CU
US-PATENT-APPL-SN-246032
US-PATENT-APPL-SN-929876
US-PATENT-CLASS-371-43
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-57
US-PATENT-4,945,549

N91-14536* c 33 . INT-PATENT-CLASS-H07M-10/39
INT-PATENT-CLASS-H07M-4/60
NASA-CASE-NPO-17604-1-CU
US-PATENT-APPL-SN-404288
US-PATENT-CLASS-252-62.2
US-PATENT-CLASS-429-104
US-PATENT-CLASS-429-213
US-PATENT-4,966,823

N91-14537* c 33 .. INT-PATENT-CLASS-H01L-43/00
NASA-CASE-MSC-21428-1
US-PATENT-APPL-SN-343652
US-PATENT-CLASS-320-51
US-PATENT-CLASS-338-221
US-PATENT-CLASS-338-32
US-PATENT-4,973,936

N91-14538* c 33 ... INT-PATENT-CLASS-H01M-6/20
NASA-CASE-NPO-17640-1-CU
US-PATENT-APPL-SN-405169
US-PATENT-CLASS-429-103
US-PATENT-CLASS-429-120
US-PATENT-4,945,012

N91-14539* c 33 .. INT-PATENT-CLASS-H01F-27/30
NASA-CASE-NPO-17830-1-CU
US-PATENT-APPL-SN-443297
US-PATENT-CLASS-336-198
US-PATENT-CLASS-336-205
US-PATENT-CLASS-336-229
US-PATENT-4,975,672

N91-14550* c 33 ... INT-PATENT-CLASS-H03D-1/00
NASA-CASE-GSC-13237-1
US-PATENT-APPL-SN-418612
US-PATENT-CLASS-328-151
US-PATENT-CLASS-329-363
US-PATENT-4,973,914

N91-14551* c 33 .. INT-PATENT-CLASS-H01L-27/14
NASA-CASE-NPO-17258-1-CU
US-PATENT-APPL-SN-283673
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-29
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-32
US-PATENT-CLASS-357-58
US-PATENT-4,954,864

N91-14552* c 33 ... INT-PATENT-CLASS-G01R-1/04
NASA-CASE-LEW-14746-1
US-PATENT-APPL-SN-392239
US-PATENT-CLASS-324-158F
US-PATENT-CLASS-324-158P
US-PATENT-CLASS-324-601
US-PATENT-CLASS-333-247
US-PATENT-4,980,636

N91-14562* c 34 .. INT-PATENT-CLASS-B64B-21/00
NASA-CASE-LAR-13532-1
US-PATENT-APPL-SN-838649
US-PATENT-CLASS-114-67A
US-PATENT-CLASS-244-130
US-PATENT-CLASS-244-203
US-PATENT-CLASS-244-204
US-PATENT-4,932,610

N91-14563* c 34 .. INT-PATENT-CLASS-F16K-3/316
INT-PATENT-CLASS-F16K-3/32
INT-PATENT-CLASS-F16K-37/00
NASA-CASE-MFS-28383-1
US-PATENT-APPL-SN-404290
US-PATENT-CLASS-137-556
US-PATENT-CLASS-251-212
US-PATENT-4,957,139

N91-14587* c 35 ..... NASA-CASE-NPO-16989-1-CU
US-PATENT-APPL-SN-358027
US-PATENT-CLASS-250-281
US-PATENT-CLASS-250-282
US-PATENT-CLASS-250-286
US-PATENT-CLASS-250-287
US-PATENT-CLASS-250-288
US-PATENT-CLASS-250-305
US-PATENT-CLASS-250-423
US-PATENT-4,973,840

N91-14588* c 35 ..... NASA-CASE-NPO-17526-1-CU
US-PATENT-APPL-SN-369403
US-PATENT-CLASS-250-338.1
US-PATENT-CLASS-250-338.2
US-PATENT-CLASS-250-370.12
US-PATENT-CLASS-250-370.13
US-PATENT-CLASS-250-493.1
US-PATENT-CLASS-357-27
US-PATENT-CLASS-357-30
US-PATENT-4,952,811

N91-14590* c 35 . INT-PATENT-CLASS-G02B-27/64
INT-PATENT-CLASS-G02B-7/18
NASA-CASE-LAR-14207-1
US-PATENT-APPL-SN-168065
US-PATENT-APPL-SN-366205
US-PATENT-CLASS-350-287
US-PATENT-CLASS-350-500
US-PATENT-4,895,430

N91-14591* c 35 . INT-PATENT-CLASS-F41G-11/00
INT-PATENT-CLASS-G02B-23/00
NASA-CASE-ARC-11886-1-SB
US-PATENT-APPL-SN-418374
US-PATENT-CLASS-33-261
US-PATENT-CLASS-350-576
US-PATENT-4,957,357

N91-14607* c 37 . INT-PATENT-CLASS-G08B-21/00
NASA-CASE-MSC-21408-1
US-PATENT-APPL-SN-304154
US-PATENT-CLASS-340-683
US-PATENT-CLASS-73-658
US-PATENT-4,977,395

N91-14608* c 37 .. INT-PATENT-CLASS-F01D-11/08
NASA-CASE-MFS-28345-1
US-PATENT-APPL-SN-364743
US-PATENT-CLASS-415-170.1
US-PATENT-CLASS-415-174.5
US-PATENT-CLASS-415-229
US-PATENT-4,927,326

N91-14609* c 37 .... INT-PATENT-CLASS-F16K-1/22
NASA-CASE-SSC-00004-1
US-PATENT-APPL-SN-404292
US-PATENT-CLASS-251-160
US-PATENT-CLASS-251-163
US-PATENT-4,921,212

N91-14610* c 37 ... INT-PATENT-CLASS-B25G-3/00
INT-PATENT-CLASS-F16B-1/00
NASA-CASE-MSC-21539-1
US-PATENT-APPL-SN-503410
US-PATENT-CLASS-285-327
US-PATENT-CLASS-403-317
US-PATENT-CLASS-403-327
US-PATENT-CLASS-403-331
US-PATENT-CLASS-403-381
US-PATENT-4,971,474

N91-14613* c 37 .. INT-PATENT-CLASS-F16L-35/00
NASA-CASE-MFS-26042-1-SB
US-PATENT-APPL-SN-161682
US-PATENT-CLASS-285-361
US-PATENT-CLASS-285-82
US-PATENT-4,932,688

N91-14614* c 37 ... INT-PATENT-CLASS-B25G-3/18
NASA-CASE-LAR-14465-1
US-PATENT-APPL-SN-223122
US-PATENT-APPL-SN-388264
US-PATENT-APPL-SN-501910
US-PATENT-CLASS-403-171
US-PATENT-CLASS-403-322
US-PATENT-CLASS-403-327
US-PATENT-CLASS-403-331
US-PATENT-4,963,052

N91-14615* c 37 .. INT-PATENT-CLASS-B25J-15/08
NASA-CASE-LAR-13855-1
US-PATENT-APPL-SN-250662
US-PATENT-CLASS-294-119.1
US-PATENT-CLASS-901-38
US-PATENT-CLASS-901-39
US-PATENT-4,955,653

N91-14616* c 37 ..... NASA-CASE-NPO-15959-2
US-PATENT-APPL-SN-364774
US-PATENT-APPL-SN-680605
US-PATENT-CLASS-294-106
US-PATENT-CLASS-294-111
US-PATENT-CLASS-414-7
US-PATENT-CLASS-414-729
US-PATENT-CLASS-74-479
US-PATENT-CLASS-74-665G
US-PATENT-4,921,293

N91-14617* c 37 . INT-PATENT-CLASS-F16M-13/00
NASA-CASE-LEW-14862-1
US-PATENT-APPL-SN-414816
US-PATENT-CLASS-248-229
US-PATENT-CLASS-248-230
US-PATENT-CLASS-403-385
US-PATENT-CLASS-403-391
US-PATENT-4,946,122

N91-14642* c 43 . INT-PATENT-CLASS-G01S-13/90
NASA-CASE-NPO-17831-1-CU
US-PATENT-APPL-SN-470665
US-PATENT-CLASS-342-25
US-PATENT-4,975,704

N91-14662* c 45 ..... NASA-CASE-NST-00007-1
US-PATENT-APPL-SN-357938
US-PATENT-CLASS-210-615
US-PATENT-CLASS-55-228
US-PATENT-CLASS-55-242
US-PATENT-CLASS-55-68
US-PATENT-CLASS-55-74
US-PATENT-CLASS-55-84
US-PATENT-CLASS-55-89
US-PATENT-4,959,084

N91-14703* c 51 . INT-PATENT-CLASS-B01D-29/04
INT-PATENT-CLASS-B01D-29/42
NASA-CASE-MSC-20929-1
US-PATENT-APPL-SN-087358
US-PATENT-CLASS-210-355
US-PATENT-CLASS-210-414
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-316
US-PATENT-4,839,046

N91-14709* c 52 ..... NASA-CASE-MSC-20078-3
US-PATENT-APPL-SN-183475
US-PATENT-APPL-SN-394343
US-PATENT-APPL-SN-585627
US-PATENT-CLASS-128-671

US-PATENT-CLASS-128-689
US-PATENT-CLASS-128-706
US-PATENT-CLASS-128-716
US-PATENT-CLASS-331-1
US-PATENT-4,936,309
N91-14723* c 54 .... INT-PATENT-CLASS-E03D-9/04
NASA-CASE-MSC-21025-4
US-PATENT-APPL-SN-035401
US-PATENT-APPL-SN-392228
US-PATENT-CLASS-4-209R
US-PATENT-CLASS-4-316
US-PATENT-CLASS-4-482
US-PATENT-4,937,891
N91-14724* c 54 .. INT-PATENT-CLASS-A47K-11/00
NASA-CASE-MSC-21025-2
US-PATENT-APPL-SN-035401
US-PATENT-APPL-SN-391911
US-PATENT-CLASS-4-DIG.9
US-PATENT-CLASS-4-316
US-PATENT-CLASS-4-482
US-PATENT-CLASS-4-661
US-PATENT-4,942,632
N91-14741* c 61 . INT-PATENT-CLASS-G06F-15/18
NASA-CASE-MSC-21465-1
US-PATENT-APPL-SN-219295
US-PATENT-CLASS-364-513
US-PATENT-CLASS-364-578
US-PATENT-4,965,743
N91-14769* c 62 . INT-PATENT-CLASS-G06F-15/16
INT-PATENT-CLASS-G06F-9/46
NASA-CASE-MSC-21348-1
US-PATENT-APPL-SN-283106
US-PATENT-CLASS-364-228.3
US-PATENT-CLASS-364-231.9
US-PATENT-CLASS-364-280
US-PATENT-CLASS-364-281
US-PATENT-CLASS-364-300
US-PATENT-4,920,487
N91-14772* c 62 .... INT-PATENT-CLASS-H04J-3/02
NASA-CASE-NPO-17185-1-CU
US-PATENT-APPL-SN-085833
US-PATENT-CLASS-340-825.5
US-PATENT-CLASS-370-85.4
US-PATENT-CLASS-370-85.6
US-PATENT-CLASS-370-85.9
US-PATENT-CLASS-370-94.3
US-PATENT-4,933,936
N91-14807* c 71 . INT-PATENT-CLASS-G01K-15/00
NASA-CASE-NPO-17511-1-CU
US-PATENT-APPL-SN-271265
US-PATENT-CLASS-73-505
US-PATENT-4,964,303
N91-14808* c 71 .. INT-PATENT-CLASS-H01L-41/08
NASA-CASE-NPO-17620-1-CU
US-PATENT-APPL-SN-326756
US-PATENT-CLASS-181-0.5
US-PATENT-CLASS-310-323
US-PATENT-CLASS-310-325
US-PATENT-CLASS-310-334
US-PATENT-4,962,330
N91-14813* c 72 ..... NASA-CASE-NPO-17498-1-CU
US-PATENT-APPL-SN-260762
US-PATENT-CLASS-437-225
US-PATENT-CLASS-437-228
US-PATENT-CLASS-437-235
US-PATENT-CLASS-437-238
US-PATENT-CLASS-437-239
US-PATENT-CLASS-437-930
US-PATENT-CLASS-437-936
US-PATENT-4,902,647
N91-14835* c 74 . INT-PATENT-CLASS-G01N-23/20
INT-PATENT-CLASS-H05B-33/00
NASA-CASE-MFS-28232-1
US-PATENT-APPL-SN-304155
US-PATENT-CLASS-250-327.2
US-PATENT-CLASS-250-484.1
US-PATENT-4,933,558
N91-14872* c 76 .. INT-PATENT-CLASS-H01L-41/08
NASA-CASE-MFS-28298-1
US-PATENT-APPL-SN-343656
US-PATENT-CLASS-310-330
US-PATENT-CLASS-310-331
US-PATENT-CLASS-310-339
US-PATENT-CLASS-310-340
US-PATENT-4,952,836
N91-15142* c 03 . INT-PATENT-CLASS-B64D-25/08
NASA-CASE-MSC-21332-1
US-PATENT-APPL-SN-242253
US-PATENT-CLASS-102-262
US-PATENT-CLASS-244-122AD
US-PATENT-CLASS-244-137.2
US-PATENT-CLASS-244-162
US-PATENT-CLASS-42-1.13
US-PATENT-CLASS-89-1.34
US-PATENT-4,860,971
N91-15320* c 24 .... INT-PATENT-CLASS-H01B-1/06
NASA-CASE-LEW-14472-1
US-PATENT-APPL-SN-251499
US-PATENT-CLASS-252-510
US-PATENT-CLASS-423-439
US-PATENT-CLASS-423-448
US-PATENT-CLASS-423-460
US-PATENT-CLASS-423-489
US-PATENT-4,957,661
N91-15333* # c 24 ..... NAS 1.71:MFS-28390-1
NASA-CASE-MFS-28390-1
US-PATENT-APPL-SN-578043
N91-15334* # c 24 ..... NAS 1.71:LAR-14459-1
NASA-CASE-LAR-14459-1
US-PATENT-APPL-SN-613046
N91-15368* # c 25 ..... NAS 1.71:MFS-29576-1
NASA-CASE-MFS-29576-1
US-PATENT-APPL-SN-587890
N91-15402* c 27 . INT-PATENT-CLASS-C08G-73/10
NASA-CASE-LEW-14203-1
US-PATENT-APPL-SN-231026
US-PATENT-CLASS-524-600
US-PATENT-CLASS-525-436
US-PATENT-CLASS-528-353
US-PATENT-4,946,890
N91-15403* c 27 . INT-PATENT-CLASS-C08G-69/26
NASA-CASE-LAR-14101-1
US-PATENT-APPL-SN-266045
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-172
US-PATENT-CLASS-528-173
US-PATENT-CLASS-528-176
US-PATENT-CLASS-528-353
US-PATENT-4,937,317
N91-15412* # c 27 ..... NAS 1.71:LEW-15020-1
NASA-CASE-LEW-15020-1
US-PATENT-APPL-SN-601957
N91-15423* c 31 ..... INT-PATENT-CLASS-F23J-1/00
NASA-CASE-NPO-16985-1-CU
US-PATENT-APPL-SN-195222
US-PATENT-CLASS-110-165R
US-PATENT-CLASS-110-171
US-PATENT-CLASS-110-259
US-PATENT-CLASS-414-217
US-PATENT-CLASS-414-220
US-PATENT-4,860,669
N91-15424* c 31 ..... INT-PATENT-CLASS-F8-15/00
NASA-CASE-LEW-14295-1
US-PATENT-APPL-SN-244377
US-PATENT-CLASS-165-104.31
US-PATENT-CLASS-165-41
US-PATENT-CLASS-165-904
US-PATENT-CLASS-239-597
US-PATENT-CLASS-239-601
US-PATENT-CLASS-244-163
US-PATENT-4,913,225
N91-15511* c 35 . INT-PATENT-CLASS-G01F-17/00
NASA-CASE-MSC-21059-2
US-PATENT-APPL-SN-217725
US-PATENT-APPL-SN-396726
US-PATENT-CLASS-73-149
US-PATENT-4,956,996
N91-15512* c 35 . INT-PATENT-CLASS-G01B-11/26
INT-PATENT-CLASS-G01C-1/00
INT-PATENT-CLASS-G01C-3/08
NASA-CASE-NPO-17436-1-CU
US-PATENT-APPL-SN-237035
US-PATENT-CLASS-356-141
US-PATENT-CLASS-356-152
US-PATENT-CLASS-356-5
US-PATENT-4,964,722
N91-15519* # c 35 ..... NAS 1.71:MFS-28485-1
NASA-CASE-MFS-28485-1
US-PATENT-APPL-SN-606988
N91-15520* # c 35 ..... NAS 1.71:ARC-11917-1
NASA-CASE-ARC-11917-1
US-PATENT-APPL-SN-596105
N91-15528* c 36 .... INT-PATENT-CLASS-H01S-3/16
NASA-CASE-NPO-17282-1-CU
US-PATENT-APPL-SN-235150
US-PATENT-CLASS-372-41
US-PATENT-CLASS-372-71
US-PATENT-CLASS-372-75
US-PATENT-4,974,230
N91-15544* c 37 .. INT-PATENT-CLASS-F16C-11/00
NASA-CASE-LAR-13898-1
US-PATENT-APPL-SN-225427
US-PATENT-CLASS-403-146
US-PATENT-CLASS-403-147
US-PATENT-CLASS-403-156
US-PATENT-CLASS-403-334
US-PATENT-4,932,807
N91-15661* # c 47 ..... NAS 1.71:MFS-26102-1-CU
NASA-CASE-MFS-26102-1-CU
US-PATENT-APPL-SN-571687
N91-15874* # c 74 ..... NAS 1.71:LAR-14402-1-CU
NASA-CASE-LAR-14402-1-CU
US-PATENT-APPL-SN-586369
N91-15898* c 76 ..... NASA-CASE-NPO-16306-1-CU
US-PATENT-APPL-SN-718798
US-PATENT-CLASS-118-405
US-PATENT-CLASS-118-407
US-PATENT-CLASS-118-419
US-PATENT-CLASS-118-428
US-PATENT-CLASS-156-608
US-PATENT-CLASS-156-617.1
US-PATENT-CLASS-156-620.1
US-PATENT-4,861,416
N91-16152* # c 27 ..... NAS 1.71:LEW-14984-1
NASA-CASE-LEW-14984-1
US-PATENT-APPL-SN-610883
N91-16566* # c 54 ..... NAS 1.71:MSC-21589-1
NASA-CASE-MSC-21589-1
US-PATENT-APPL-SN-529427
N91-16707* # c 71 ..... NAS 1.71:LAR-14361-1
NASA-CASE-LAR-14361-1
US-PATENT-APPL-SN-587920
N91-16815* # c 76 ..... NAS 1.71:MFS-26061-1
NASA-CASE-MFS-26061-1
US-PATENT-APPL-SN-575708
N91-16999* # c 02 ..... NAS 1.71:LAR-13742-1
NASA-CASE-LAR-13742-1
US-PATENT-APPL-SN-621144
N91-17141* c 23 . INT-PATENT-CLASS-C07C-15/16
NASA-CASE-LEW-14345-3
US-PATENT-APPL-SN-159071
US-PATENT-APPL-SN-292049
US-PATENT-APPL-SN-924474
US-PATENT-CLASS-552-101
US-PATENT-4,912,238
N91-17145* c 24 ..... NASA-CASE-LEW-14990-1-CU
US-PATENT-APPL-SN-326757
US-PATENT-APPL-SN-433863
US-PATENT-CLASS-419-24
US-PATENT-CLASS-419-36
US-PATENT-CLASS-419-37
US-PATENT-CLASS-419-48
US-PATENT-CLASS-419-49
US-PATENT-CLASS-419-8
US-PATENT-4,980,126
N91-17250* # c 29 ..... NAS 1.71:MFS-28422-1
NASA-CASE-MFS-28422-1
US-PATENT-APPL-SN-629740
N91-17340* # c 34 ..... NAS 1.71:MSC-21729-1
NASA-CASE-MSC-21729-1
US-PATENT-APPL-SN-625344
N91-17350* c 35 .... INT-PATENT-CLASS-G01L-3/00
NASA-CASE-NPO-17461-1-CU
US-PATENT-APPL-SN-326820
US-PATENT-CLASS-73-862.33
US-PATENT-CLASS-73-862.36
US-PATENT-4,932,270
N91-17360* # c 36 . INT-PATENT-CLASS-H01S-3/098
NASA-CASE-NPO-17355-1-CU
US-PATENT-APPL-SN-283431
US-PATENT-CLASS-372-19
US-PATENT-CLASS-372-39
US-PATENT-CLASS-372-66
US-PATENT-CLASS-372-70
US-PATENT-4,860,295
N91-17387* c 37 .... INT-PATENT-CLASS-F16D-3/02
NASA-CASE-GSC-13153-1
US-PATENT-APPL-SN-326863
US-PATENT-CLASS-403-113
US-PATENT-CLASS-403-291
US-PATENT-CLASS-403-57
US-PATENT-CLASS-464-132
US-PATENT-CLASS-464-56
US-PATENT-4,932,806
N91-17388* c 37 .... INT-PATENT-CLASS-F16D-3/50
NASA-CASE-GSC-13127-1
US-PATENT-APPL-SN-193612
US-PATENT-CLASS-464-56
US-PATENT-CLASS-901-28
US-PATENT-4,946,421
N91-17401* # c 37 ..... NAS 1.71:GSC-13261-1
NASA-CASE-GSC-13261-1
US-PATENT-APPL-SN-628529
N91-17531* # c 51 ..... NAS 1.71:MSC-21662-1
NASA-CASE-MSC-21662-1
US-PATENT-APPL-SN-625345
N91-21157* c 09 . INT-PATENT-CLASS-G01N-31/12
NASA-CASE-MSC-21470-1
US-PATENT-APPL-SN-381239
US-PATENT-CLASS-374-8
US-PATENT-CLASS-422-104
US-PATENT-CLASS-422-78
US-PATENT-CLASS-422-80
US-PATENT-CLASS-73-865.6
US-PATENT-4,990,312
N91-21175* c 14 ... INT-PATENT-CLASS-G01M-3/28
NASA-CASE-MFS-28376-1

US-PATENT-APPL-SN-361479
US-PATENT-CLASS-73-49.8
US-PATENT-5,000,033
N91-21176* c 14 . INT-PATENT-CLASS-G01M-19/00
INT-PATENT-CLASS-G01M-7/02
NASA-CASE-LAR-14149-1-SB
US-PATENT-APPL-SN-357757
US-PATENT-CLASS-73-663
US-PATENT-CLASS-73-865.6
US-PATENT-CLASS-73-866.4
US-PATENT-4,995,272
N91-21221* c 18 ... INT-PATENT-CLASS-B25G-3/00
NASA-CASE-MSC-21504-1
US-PATENT-APPL-SN-516856
US-PATENT-CLASS-403-171
US-PATENT-CLASS-403-176
US-PATENT-CLASS-403-252
US-PATENT-CLASS-52-646
US-PATENT-4,998,842
N91-21222* c 18 ... INT-PATENT-CLASS-B24G-1/00
NASA-CASE-MSC-21534-1
US-PATENT-APPL-SN-480985
US-PATENT-CLASS-244-14
US-PATENT-CLASS-244-158R
US-PATENT-4,991,788
N91-21270* c 25 .... INT-PATENT-CLASS-H01S-3/22
NASA-CASE-LAR-14155-2-SB
US-PATENT-APPL-SN-298150
US-PATENT-APPL-SN-443406
US-PATENT-CLASS-372-59
US-PATENT-CLASS-423-247
US-PATENT-CLASS-502-324
US-PATENT-CLASS-502-34
US-PATENT-4,991,181
N91-21434* c 33 .. INT-PATENT-CLASS-H01L-27/14
NASA-CASE-NPO-17426-1-CU
US-PATENT-APPL-SN-363815
US-PATENT-CLASS-357-15
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-67S
US-PATENT-CLASS-357-71S
US-PATENT-4,990,988
N91-21473* c 34 .. INT-PATENT-CLASS-F28D-15/02
NASA-CASE-KSC-11395-1-CU
US-PATENT-APPL-SN-473065
US-PATENT-CLASS-165-104.14
US-PATENT-CLASS-165-86
US-PATENT-CLASS-165-96
US-PATENT-CLASS-62-333
US-PATENT-CLASS-62-384
US-PATENT-CLASS-62-90
US-PATENT-4,971,139
N91-21493* c 35 . INT-PATENT-CLASS-G01F-17/00
NASA-CASE-MSC-21500-1
US-PATENT-APPL-SN-458258
US-PATENT-CLASS-73-149
US-PATENT-5,001,924
N91-21494* c 35 .. INT-PATENT-CLASS-F01B-19/00
NASA-CASE-MSC-20797-2
US-PATENT-APPL-SN-041389
US-PATENT-APPL-SN-771537
US-PATENT-CLASS-92-103F
US-PATENT-CLASS-92-103SD
US-PATENT-4,989,497
N91-21495* c 35 . INT-PATENT-CLASS-G01F-17/00
NASA-CASE-MSC-21059-3
US-PATENT-APPL-SN-396726
US-PATENT-APPL-SN-486455
US-PATENT-CLASS-73-149
US-PATENT-4,984,457
N91-21496* c 35 .... INT-PATENT-CLASS-B01F-3/02
NASA-CASE-MFS-28177-1
US-PATENT-APPL-SN-283092
US-PATENT-CLASS-165-20
US-PATENT-CLASS-236-44A
US-PATENT-CLASS-236-94
US-PATENT-CLASS-417-190
US-PATENT-4,909,436
N91-21525*# c 37 ..... NAS 1.71:GSC-13220-1
NASA-CASE-GSC-13220-1
US-PATENT-APPL-SN-636532
N91-21539* c 37 . INT-PATENT-CLASS-H02K-41/00
NASA-CASE-LAR-13981-1
US-PATENT-APPL-SN-405154
US-PATENT-CLASS-310-90.5
US-PATENT-CLASS-318-135
US-PATENT-5,003,235
N91-21540* c 37 ... INT-PATENT-CLASS-G01N-3/20
NASA-CASE-LEW-14776-1
US-PATENT-APPL-SN-458274
US-PATENT-CLASS-73-852
US-PATENT-4,986,132
N91-21541* c 37 . INT-PATENT-CLASS-F16M-13/00
NASA-CASE-LAR-13580-1
US-PATENT-APPL-SN-441673
US-PATENT-CLASS-248-593
US-PATENT-CLASS-248-604
US-PATENT-4,997,158
N91-21542* c 37 ..... NASA-CASE-MSC-21476-1
US-PATENT-APPL-SN-392235
US-PATENT-CLASS-318-568.16
US-PATENT-CLASS-318-568.20
US-PATENT-CLASS-318-568.21
US-PATENT-CLASS-364-513
US-PATENT-CLASS-901-33
US-PATENT-CLASS-901-37
US-PATENT-CLASS-901-47
US-PATENT-4,980,626
N91-21543* c 37 . INT-PATENT-CLASS-F16M-13/00
NASA-CASE-MSC-21502-1
US-PATENT-APPL-SN-470663
US-PATENT-CLASS-DIG.4
US-PATENT-CLASS-248-181
US-PATENT-CLASS-248-650
US-PATENT-CLASS-248-677
US-PATENT-CLASS-254-101
US-PATENT-CLASS-403-131
US-PATENT-5,000,416
N91-21544* c 37 ..... NASA-CASE-NPO-17801-1-CU
US-PATENT-APPL-SN-459029
US-PATENT-CLASS-318-561
US-PATENT-CLASS-318-628
US-PATENT-CLASS-318-646
US-PATENT-CLASS-318-648
US-PATENT-CLASS-364-478
US-PATENT-CLASS-364-513
US-PATENT-CLASS-901-9
US-PATENT-4,999,553
N91-21545* c 37 .. INT-PATENT-CLASS-B25B-11/00
INT-PATENT-CLASS-G02B-21/26
INT-PATENT-CLASS-G02B-21/32
NASA-CASE-MFS-28420-1
US-PATENT-APPL-SN-523675
US-PATENT-CLASS-269-21
US-PATENT-CLASS-350-529
US-PATENT-4,981,345
N91-21621* c 43 . INT-PATENT-CLASS-G01S-13/86
INT-PATENT-CLASS-G01S-13/89
NASA-CASE-NPO-17937-1-CU
US-PATENT-APPL-SN-493190
US-PATENT-CLASS-342-26
US-PATENT-CLASS-342-357
US-PATENT-CLASS-342-52
US-PATENT-4,990,922
N91-21700* c 51 ..... NASA-CASE-MSC-21293-1
US-PATENT-APPL-SN-213559
US-PATENT-CLASS-435-284
US-PATENT-CLASS-435-285
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-292
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-312
US-PATENT-CLASS-435-316
US-PATENT-4,988,623
N91-21701* c 51 . INT-PATENT-CLASS-C12M-03/06
NASA-CASE-MSC-21361-1
US-PATENT-APPL-SN-278137
US-PATENT-CLASS-210-396
US-PATENT-CLASS-435-286
US-PATENT-CLASS-435-289
US-PATENT-CLASS-435-311
US-PATENT-CLASS-435-315
US-PATENT-CLASS-435-316
US-PATENT-5,002,890
N91-21824* c 70 .... INT-PATENT-CLASS-H02K-7/09
NASA-CASE-LAR-13785-1
US-PATENT-APPL-SN-405168
US-PATENT-CLASS-310-90.5
US-PATENT-5,003,211
N91-21871* c 74 ... INT-PATENT-CLASS-G01B-9/02
INT-PATENT-CLASS-G02B-6/02
INT-PATENT-CLASS-G02B-6/16
NASA-CASE-LEW-14795-1
US-PATENT-APPL-SN-404291
US-PATENT-CLASS-250-227
US-PATENT-CLASS-350-96.29
US-PATENT-CLASS-356-345
US-PATENT-4,995,697
N91-21911* c 76 . INT-PATENT-CLASS-H05B-33/14
NASA-CASE-LAR-14181-1
US-PATENT-APPL-SN-140185
US-PATENT-APPL-SN-338379
US-PATENT-CLASS-313-502
US-PATENT-CLASS-313-503
US-PATENT-CLASS-313-506
US-PATENT-CLASS-428-690
US-PATENT-4,987,339
N91-23180*# c 07 ..... NAS 1.71:LEW-15094-1
NASA-CASE-LEW-15094-1
US-PATENT-APPL-SN-647902
N91-23237*# c 23 ..... NAS 1.71:LAR-14427-1
NASA-CASE-LAR-14427-1
US-PATENT-APPL-SN-645089
N91-23271*# c 25 ..... NAS 1.71:MSC-21577-1-SB
NASA-CASE-MSC-21577-1-SB
US-PATENT-APPL-SN-748933
N91-23380*# c 33 ..... NAS 1.71:GSC-13369-1
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N91-23410*# c 34 ..... NAS 1.71:LAR-13563-1
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N91-23460*# c 35 ..... NAS 1.71:LEW-14967-2
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N91-23462*# c 35 ..... NAS 1.71:MSC-21700-1
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N91-23472*# c 36 ..... NAS 1.71:LAR-13887-1
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US-PATENT-APPL-SN-681288
N91-23490*# c 37 ..... NAS 1.71:MSC-21463-1
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US-PATENT-APPL-SN-636531
N91-23491*# c 37 ..... NAS 1.71:MSC-21580-1
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US-PATENT-APPL-SN-648772
N91-23492*# c 37 ..... NAS 1.71:MSC-21555-1
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US-PATENT-APPL-SN-656925
N91-23493*# c 37 ..... NAS 1.71:MSC-21730-1
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N91-23617*# c 44 ..... NAS 1.71:LEW-14949-1
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N91-23662*# c 47 ..... NAS 1.71:NPO-18115-1-CU
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N91-23724*# c 60 ..... NAS 1.71:MSC-21350-1
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N91-23783*# c 63 ..... NAS 1.71:NPO-17852-1-CU
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N91-23889*# c 74 ..... NAS 1.71:LAR-14588-1-CU
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US-PATENT-APPL-SN-653605
N91-23890*# c 74 ..... NAS 1.71:NPO-18098-1-CU
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N91-23933*# c 76 ..... NAS 1.71:MFS-28507-1
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N91-23976*# c 82 ..... NAS 1.71:SSC-00010-1
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N91-24216*# c 16 ..... NAS 1.71:MSC-21562-1
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US-PATENT-APPL-SN-658911
N91-24362*# c 25 ..... NAS 1.71:MSC-21584-1
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N91-24426*# c 27 ..... NAS 1.71:MFS-28372-1
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N91-24577*# c 37 ..... NAS 1.71:MSC-21517-1
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N91-24878*# c 74 ..... NAS 1.71:NPO-18028-1-CU
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N91-25155*# c 09 ..... NAS 1.71:MFS-28493-1
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N91-25167*# c 18 ..... NAS 1.71:MFS-28524-1
NASA-CASE-MFS-28524-1
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N91-25185* c 23 . INT-PATENT-CLASS-C07C-15/16
NASA-CASE-LEW-14345-4
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US-PATENT-APPL-SN-419554
US-PATENT-CLASS-552-101
US-PATENT-CLASS-552-108
US-PATENT-CLASS-552-110
US-PATENT-CLASS-552-113
US-PATENT-CLASS-552-115
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N91-25199* c 24 ..... NASA-CASE-LAR-13562-2
US-PATENT-APPL-SN-486668
US-PATENT-APPL-SN-921572
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US-PATENT-CLASS-156-187
US-PATENT-CLASS-156-625
US-PATENT-CLASS-156-634
US-PATENT-CLASS-264-257
US-PATENT-CLASS-264-261
US-PATENT-5,008,061

N91-25200* c 24 ..... NASA-CASE-LAR-14107-1
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US-PATENT-APPL-SN-262268
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US-PATENT-CLASS-264-257
US-PATENT-CLASS-264-331.12
US-PATENT-CLASS-525-432
US-PATENT-CLASS-528-350
US-PATENT-CLASS-528-352
US-PATENT-5,004,575
N91-25201* # c 24 ..... NAS 1.71:LEW-14162-2
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N91-25202* # c 24 ..... NAS 1.71:LEW-15020-2
NASA-CASE-LEW-15020-2
US-PATENT-APPL-SN-708255
N91-25296* c 27 .... INT-PATENT-CLASS-B23H-9/00
NASA-CASE-LEW-14679-1
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US-PATENT-CLASS-219-69.11
US-PATENT-5,012,062
N91-25298* # c 27 ..... NAS 1.71:LEW-15164-1
NASA-CASE-LEW-15164-1
US-PATENT-APPL-SN-699130
N91-25305* c 31 .. INT-PATENT-CLASS-F16L-55/04
NASA-CASE-MSC-21703-1
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US-PATENT-CLASS-138-26
US-PATENT-CLASS-138-30
US-PATENT-5,027,860
N91-25306* # c 31 ..... NAS 1.71:MFS-28545-1
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N91-25316* c 32 .... INT-PATENT-CLASS-H04B-1/10
NASA-CASE-NPO-16987-1-CU
US-PATENT-APPL-SN-203374
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-56
US-PATENT-CLASS-375-85
US-PATENT-CLASS-375-97
US-PATENT-5,007,068
N91-25317* c 32 . INT-PATENT-CLASS-G06F-15/20
NASA-CASE-MSC-21334-1
US-PATENT-APPL-SN-292130
US-PATENT-CLASS-364-578
US-PATENT-5,005,147
N91-25318* c 32 .. INT-PATENT-CLASS-H04L-27/18
NASA-CASE-NPO-17853-1-CU
US-PATENT-APPL-SN-443539
US-PATENT-CLASS-329-304
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-86
US-PATENT-5,025,455
N91-25335* # c 33 ..... NAS 1.71:MFS-29766-1
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N91-25380* c 34 ... INT-PATENT-CLASS-B64G-1/28
NASA-CASE-NPO-17204-1-CU
US-PATENT-APPL-SN-473242
US-PATENT-CLASS-114-122
US-PATENT-CLASS-114-125
US-PATENT-CLASS-244-164
US-PATENT-CLASS-244-165
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N91-25388* # c 35 ..... NAS 1.71:MFS-28563-1
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N91-25392* # c 36 ..... NAS 1.71:LAR-14556-1
NASA-CASE-LAR-14556-1
US-PATENT-APPL-SN-699289
N91-25415* # c 37 ..... NAS 1.71:MSC-21748-1
NASA-CASE-MSC-21748-1
US-PATENT-APPL-SN-657598
N91-25570* # c 51 ..... NAS 1.71:MSC-21763-1
NASA-CASE-MSC-21763-1
US-PATENT-APPL-SN-671603
N91-25693* # c 62 . INT-PATENT-CLASS-G06F-12/00
NASA-CASE-NPO-17197-1-CU
US-PATENT-APPL-SN-292124
US-PATENT-CLASS-364-200
US-PATENT-CLASS-364-281
US-PATENT-CLASS-364-281.3
US-PATENT-CLASS-364-281.6
US-PATENT-CLASS-364-281.8
US-PATENT-5,031,089
N91-25840* c 74 ..... NASA-CASE-MSC-21509-1
US-PATENT-APPL-SN-560924
US-PATENT-CLASS-350-162.13
US-PATENT-CLASS-350-3.68
US-PATENT-CLASS-382-31
US-PATENT-CLASS-382-32
US-PATENT-CLASS-382-43
US-PATENT-CLASS-382-49
US-PATENT-CLASS-382-6
US-PATENT-5,029,220
N91-25841* c 74 .. INT-PATENT-CLASS-H01L-27/02
INT-PATENT-CLASS-H01L-29/161
NASA-CASE-NPO-18101-1-CU
US-PATENT-APPL-SN-596133
US-PATENT-CLASS-357-16
US-PATENT-CLASS-357-17
US-PATENT-CLASS-357-30
US-PATENT-CLASS-357-34
US-PATENT-CLASS-357-46
US-PATENT-5,027,182
N91-25875* c 75 .... INT-PATENT-CLASS-B23K-9/00
NASA-CASE-LEW-14901-1
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US-PATENT-CLASS-219-121.47
US-PATENT-CLASS-219-121.48
US-PATENT-CLASS-219-121.52
US-PATENT-CLASS-219-75
US-PATENT-CLASS-219-76.16
US-PATENT-CLASS-427-34
US-PATENT-4,990,739
N91-26159* # c 09 ..... NAS 1.71:LAR-14435-1-CU
NASA-CASE-LAR-14435-1-CU
US-PATENT-APPL-SN-690144
N91-26200* # c 20 ..... NAS 1.71:14846-2
NASA-CASE-LEW-14846-2
US-PATENT-APPL-SN-709907
N91-26375* # c 27 ..... NAS 1.71:LEW-15155-1
NASA-CASE-LEW-15155-1
US-PATENT-APPL-SN-682160
N91-26376* # c 27 ..... NAS 1.71:LEW-14999-2
NASA-CASE-LEW-14999-2
US-PATENT-APPL-SN-662684
N91-26438* c 33 ... INT-PATENT-CLASS-H03D-1/04
NASA-CASE-GSC-13179-1
US-PATENT-APPL-SN-414815
US-PATENT-CLASS-307-353
US-PATENT-CLASS-329-349
US-PATENT-CLASS-329-361
US-PATENT-5,015,963
N91-26459* # c 33 ..... NAS 1.71:MFS-28458-1
NASA-CASE-MFS-28458-1
US-PATENT-APPL-SN-710192
N91-26542* # c 37 ..... NAS 1.71:MFS-28521-1
NASA-CASE-MFS-28521-1
US-PATENT-APPL-SN-657586
N91-26543* # c 37 ..... NAS 1.71:LEW-15196-1
NASA-CASE-LEW-15196-1
US-PATENT-APPL-SN-687606
N91-26747* c 54 ..... NASA-CASE-MSC-21025-3
US-PATENT-APPL-SN-035401
US-PATENT-APPL-SN-392174
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US-PATENT-CLASS-83-206
US-PATENT-CLASS-83-277
US-PATENT-CLASS-83-282
US-PATENT-CLASS-83-614
US-PATENT-CLASS-83-649
US-PATENT-5,005,457
N91-26918* c 74 ..... NASA-CASE-NPO-17512-1-CU
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US-PATENT-CLASS-350-353
US-PATENT-CLASS-350-354
US-PATENT-CLASS-350-358
US-PATENT-CLASS-364-713
US-PATENT-CLASS-364-822
US-PATENT-CLASS-364-837
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N91-26966* # c 76 ..... NAS 1.71:LEW-15222-1
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N91-26967* # c 76 ..... NAS 1.71:LEW-15223-1
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N91-26968* # c 76 ..... NAS 1.71:MFS-28473-1
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US-PATENT-APPL-SN-717447
N91-27139* c 02 . INT-PATENT-CLASS-B64C-17/00
NASA-CASE-LAR-14322-1
US-PATENT-APPL-SN-603335
US-PATENT-CLASS-244-113
US-PATENT-CLASS-244-139
US-PATENT-CLASS-244-75R
US-PATENT-5,020,739
N91-27156* c 05 .... INT-PATENT-CLASS-B64C-7/00
INT-PATENT-CLASS-B64D-1/02
NASA-CASE-LAR-13875-1
US-PATENT-APPL-SN-250468
US-PATENT-CLASS-244-118.1
US-PATENT-CLASS-244-130
US-PATENT-CLASS-244-137.4
US-PATENT-5,018,688
N91-27175* c 14 .... INT-PATENT-CLASS-F27B-5/14
INT-PATENT-CLASS-F27D-11/10
INT-PATENT-CLASS-G01N-3/08
NASA-CASE-LEW-14848-1
US-PATENT-APPL-SN-382885
US-PATENT-CLASS-219-390
US-PATENT-CLASS-374-49
US-PATENT-CLASS-374-50
US-PATENT-CLASS-73-826
US-PATENT-5,015,825
N91-27199* c 18 . INT-PATENT-CLASS-E04H-12/18
NASA-CASE-LAR-13490-1
US-PATENT-APPL-SN-899683
US-PATENT-CLASS-403-72
US-PATENT-CLASS-52-646
US-PATENT-5,016,418
N91-27200* c 18 . INT-PATENT-CLASS-G02B-5/122
NASA-CASE-MFS-28419-1
US-PATENT-APPL-SN-431538
US-PATENT-CLASS-350-102
US-PATENT-CLASS-350-107
US-PATENT-CLASS-350-97
US-PATENT-5,020,876
N91-27201* c 18 ... INT-PATENT-CLASS-B64G-1/42
NASA-CASE-GSC-13197-1
US-PATENT-APPL-SN-344872
US-PATENT-CLASS-244-159
US-PATENT-5,020,743
N91-27220* c 23 . INT-PATENT-CLASS-C08G-14/00
INT-PATENT-CLASS-C08G-8/02
NASA-CASE-LAR-13992-1-CU
US-PATENT-APPL-SN-248009
US-PATENT-CLASS-528-125
US-PATENT-CLASS-528-126
US-PATENT-CLASS-528-128
US-PATENT-CLASS-528-219
US-PATENT-CLASS-528-220
US-PATENT-4,902,769
N91-27244* c 24 ..... NASA-CASE-LEW-14902-1
US-PATENT-APPL-SN-571058
US-PATENT-CLASS-419-14
US-PATENT-CLASS-419-30
US-PATENT-CLASS-419-32
US-PATENT-CLASS-419-36
US-PATENT-CLASS-419-38
US-PATENT-CLASS-419-39
US-PATENT-CLASS-419-49
US-PATENT-5,034,187
N91-27372* c 27 ..... NASA-CASE-NPO-17633-1-CU
US-PATENT-APPL-SN-418611
US-PATENT-CLASS-528-220
US-PATENT-CLASS-528-222
US-PATENT-CLASS-528-225
US-PATENT-CLASS-528-227
US-PATENT-CLASS-528-228
US-PATENT-CLASS-528-230
US-PATENT-CLASS-528-233
US-PATENT-5,011,907
N91-27385* c 31 .... INT-PATENT-CLASS-F28F-7/00
NASA-CASE-NPO-17806-1-CU
US-PATENT-APPL-SN-560908
US-PATENT-CLASS-136-204
US-PATENT-CLASS-165-1
US-PATENT-CLASS-165-185
US-PATENT-5,031,689
N91-27439* c 32 .. INT-PATENT-CLASS-H04L-27/22
NASA-CASE-NPO-17896-1-CU
US-PATENT-APPL-SN-560691
US-PATENT-CLASS-329-304
US-PATENT-CLASS-375-53
US-PATENT-CLASS-375-56
US-PATENT-CLASS-375-85
US-PATENT-CLASS-375-86
US-PATENT-5,017,883
N91-27478* c 33 ... INT-PATENT-CLASS-H01M-4/04
INT-PATENT-CLASS-H01M-4/58
NASA-CASE-NPO-17809-1-CU
US-PATENT-APPL-SN-503409
US-PATENT-CLASS-29-623.5
US-PATENT-CLASS-429-223
US-PATENT-5,019,470
N91-27479* c 33 .... INT-PATENT-CLASS-G05F-1/12
NASA-CASE-GSC-13280-1
US-PATENT-APPL-SN-418373
US-PATENT-CLASS-323-311
US-PATENT-CLASS-323-312
US-PATENT-5,021,729
N91-27504* c 34 .... INT-PATENT-CLASS-F16K-3/32
INT-PATENT-CLASS-F16K-31/06
NASA-CASE-MSC-21549-1
US-PATENT-APPL-SN-507553
US-PATENT-CLASS-251-129.15
US-PATENT-CLASS-251-148
US-PATENT-CLASS-251-205
US-PATENT-CLASS-251-326
US-PATENT-CLASS-251-363
US-PATENT-5,020,774
N91-27522* c 35 . INT-PATENT-CLASS-H04R-25/00
NASA-CASE-GSC-13027-1-CU
US-PATENT-APPL-SN-363807
US-PATENT-CLASS-381-26

US-PATENT-CLASS-381-68.1
US-PATENT-CLASS-381-92
US-PATENT-5,029,216

N91-27560* c 37 . INT-PATENT-CLASS-B64D-33/04
INT-PATENT-CLASS-F16J-15/46
NASA-CASE-LEW-14672-1
US-PATENT-APPL-SN-441672
US-PATENT-CLASS-239-265.11
US-PATENT-CLASS-277-157
US-PATENT-CLASS-277-226
US-PATENT-CLASS-277-229
US-PATENT-CLASS-277-34
US-PATENT-5,014,917

N91-27561* c 37 .... INT-PATENT-CLASS-B60P-7/15
INT-PATENT-CLASS-E05C-5/04
NASA-CASE-LEW-14887-1
US-PATENT-APPL-SN-503418
US-PATENT-CLASS-292-60
US-PATENT-CLASS-292-61
US-PATENT-CLASS-410-80
US-PATENT-CLASS-410-84
US-PATENT-5,032,045

N91-27562* c 37 ..... NASA-CASE-LAR-14489-1
US-PATENT-APPL-SN-543926
US-PATENT-CLASS-264-184
US-PATENT-CLASS-264-211.15
US-PATENT-CLASS-264-211.16
US-PATENT-CLASS-264-211.17
US-PATENT-CLASS-264-234
US-PATENT-CLASS-264-236
US-PATENT-CLASS-264-345
US-PATENT-5,023,034

N91-27614* c 44 .. INT-PATENT-CLASS-H01L-31/18
INT-PATENT-CLASS-H01L-31/42
NASA-CASE-LEW-14959-1
US-PATENT-APPL-SN-495969
US-PATENT-CLASS-136-244
US-PATENT-CLASS-136-249
US-PATENT-CLASS-136-256
US-PATENT-CLASS-357-30
US-PATENT-CLASS-437-2
US-PATENT-5,019,176

N91-27913* c 71 ..... NASA-CASE-LAR-13968-1
US-PATENT-APPL-SN-392165
US-PATENT-CLASS-181-206
US-PATENT-CLASS-181-286
US-PATENT-CLASS-181-290
US-PATENT-CLASS-181-295
US-PATENT-CLASS-381-71
US-PATENT-CLASS-381-94
US-PATENT-CLASS-52-144
US-PATENT-5,024,288

N91-27914* c 71 .... INT-PATENT-CLASS-A61B-8/00
NASA-CASE-LAR-13966-1
US-PATENT-APPL-SN-422726
US-PATENT-CLASS-128-660.06
US-PATENT-CLASS-73-631
US-PATENT-5,031,627

N91-27936* c 72 .. INT-PATENT-CLASS-H01J-37/00
NASA-CASE-LAR-14250-1-SB
US-PATENT-APPL-SN-531372
US-PATENT-CLASS-250-306
US-PATENT-CLASS-250-307
US-PATENT-CLASS-250-358.1
US-PATENT-5,015,851

N91-27957* c 74 . INT-PATENT-CLASS-H04B-10/00
NASA-CASE-NPO-17703-1-CU
US-PATENT-APPL-SN-359801
US-PATENT-CLASS-356-5
US-PATENT-CLASS-455-605
US-PATENT-5,031,234

N91-28014* c 76 INT-PATENT-CLASS-H01L-21/324
NASA-CASE-NPO-17678-1-CU
US-PATENT-APPL-SN-357758
US-PATENT-CLASS-357-82
US-PATENT-CLASS-437-187
US-PATENT-CLASS-437-197
US-PATENT-CLASS-437-199
US-PATENT-CLASS-437-247
US-PATENT-CLASS-437-248
US-PATENT-5,019,533

N91-28135*# c 02 ..... NAS 1.71:LAR-14685-1
NASA-CASE-LAR-14685-1
US-PATENT-APPL-SN-718313

N91-28175*# c 09 ..... NAS 1.71:LAR-13548-1
NASA-CASE-LAR-13548-1
US-PATENT-APPL-SN-721039

N91-28184*# c 14 ..... NAS 1.71:LAR-14272-1-CU
NASA-CASE-LAR-14272-1-CU
US-PATENT-APPL-SN-678553

N91-28186*# c 16 ..... NAS 1.71:MSC-21793-1
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US-PATENT-APPL-SN-731829

N91-28289*# c 24 ..... NAS 1.71:LEW-15077-2
NASA-CASE-LEW-15077-2
US-PATENT-APPL-SN-735548

N91-28321*# c 25 ..... NAS 1.71:LAR-13388-1
NASA-CASE-LAR-13388-1
US-PATENT-APPL-SN-628062

N91-28363*# c 26 ..... NAS 1.71:GSC-13344-1
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US-PATENT-APPL-SN-718046

N91-28423*# c 27 ..... NAS 1.71:LEW-14474-1
NASA-CASE-LEW-14474-1
US-PATENT-APPL-SN-720133

N91-28424*# c 27 ..... NAS 1.71:LAR-13645-1
NASA-CASE-LAR-13645-1
US-PATENT-APPL-SN-721038

N91-28425*# c 27 ..... NAS 1.71:LAR-14206-1
NASA-CASE-LAR-14206-1
US-PATENT-APPL-SN-429574

N91-28444*# c 28 ..... NAS 1.71:LAR-13832-1
NASA-CASE-LAR-13832-1
US-PATENT-APPL-SN-682151

N91-28454*# c 31 ..... NAS 1.71:LAR-14446-1
NASA-CASE-LAR-14446-1
US-PATENT-APPL-SN-699288

N91-28455*# c 31 ..... NAS 1.71:LAR-14483-1
NASA-CASE-LAR-14483-1
US-PATENT-APPL-SN-682153

N91-28490*# c 33 ..... NAS 1.71:LAR-14395-1-CU
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US-PATENT-APPL-SN-666536

N91-28546*# c 35 ..... NAS 1.71:LAR-14579-1
NASA-CASE-LAR-14579-1
US-PATENT-APPL-SN-690198

N91-28557*# c 36 ..... NAS 1.71:GSC-13343-1
NASA-CASE-GSC-13343-1
US-PATENT-APPL-SN-702529

N91-28578*# c 37 ..... NAS 1.71:GSC-13346-1
NASA-CASE-GSC-13346-1
US-PATENT-APPL-SN-691609

N91-28579*# c 37 ..... NAS 1.71:GSC-13376-1
NASA-CASE-GSC-13376-1
US-PATENT-APPL-SN-677008

N91-28580*# c 37 ..... NAS 1.71:LAR-14515-1-CU
NASA-CASE-LAR-14515-1-CU
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Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Associate General Counsel for Intellectual Property, code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB.*

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

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NASA Case Number Prefix Letters	Address of Cognizant NASA Patent Counsel
ARC-xxxxx XAR-xxxxx	Ames Research Center Mail Code: 200-11A Moffett Field, California 94035 Telephone: (415) 694-5104
ERC-xxxxx XER-xxxxx HQN-xxxxx XHQ-xxxxx	NASA Headquarters Mail Code: GP Washington, D.C. 20546 Telephone: (202) 453-2417
GSC-xxxxx XGS-xxxxx	Goddard Space Flight Center Mail Code: 204 Greenbelt, Maryland 20771 Telephone: (301) 286-7351
KSC-xxxxx XKS-xxxxx	John F. Kennedy Space Center Mail Code: PT-PAT Kennedy Space Center, Florida 32899 Telephone: (305) 867-2544
LAR-xxxxx XLA-xxxxx	Langley Research Center Mail Code: 279 Hampton, Virginia 23365 Telephone: (804) 865-3725
LEW-xxxxx XLE-xxxxx	Lewis Research Center Mail Code: 500-318 21000 Brookpark Road Cleveland, Ohio 44135 Telephone: (216) 433-5753
MSC-xxxxx XMS-xxxxx	Lyndon B. Johnson Space Center Mail Code: AL3 Houston, Texas 77058 Telephone: (713) 483-4871
MFS-xxxxx XMF-xxxxx	George C. Marshall Space Flight Center Mail Code: CC01 Huntsville, Alabama 35812 Telephone: (205) 544-0024
NPO-xxxxx XNP-xxxxx FRC-xxxxx XFR-xxxxx WOO-xxxxx	NASA Resident Legal Office Mail Code: 180-801 4800 Oak Grove Drive Pasadena, California 91103 Telephone: (818) 354-2700

PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration
ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

FOR FURTHER INFORMATION CONTACT:
Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

* * * * *

Subpart 2—Licensing of NASA Inventions

Sec.

1245.200 Scope of subpart.
1245.201 Policy and objective.
1245.202 Definitions.
1245.203 Authority to grant licenses.

Restrictions and Conditions

1245.204 All licenses granted under this subpart.

Types of Licenses

1245.205 Nonexclusive licenses.
1245.206 Exclusive and partially exclusive licenses.

Procedures

1245.207 Application for a license.
1245.208 Processing applications.
1245.209 Notice to Attorney General.
1245.210 Modification and termination of licenses.
1245.211 Appeals.
1245.212 Protection and administration of inventions.
1245.213 Transfer of custody.
1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Stat 3023 and 3024.

* * * * *

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

(6) The license shall require the licensee to report periodically on the utilization or efforts at obtaining utilization that are being made by the licensee, with particular reference to the plan submitted.

(7) All licenses shall normally require royalties or other consideration.

(8) Where an agreement is obtained pursuant to § 1245.204(a)(2) that any products embodying the invention or produced through use of the invention will be manufactured substantially in the United States, the license shall recite such agreement.

(9) The license shall provide for the right of NASA to terminate the license, in whole or in part, if:

(i) NASA determines that the licensee is not executing the plan submitted with its request for a license and the licensee cannot otherwise demonstrate to the satisfaction of NASA that it has taken or can be expected to take within a reasonable time effective steps to achieve practical application of the invention;

(ii) NASA determines that such action is necessary to meet requirements for public use specified by Federal regulations issued after the date of the license and such requirements are not reasonably satisfied by the licensee;

(iii) The licensee has willfully made a false statement of or willfully omitted a material fact in the license application or in any report required by the license agreement; or

(iv) The licensee commits a substantial breach of a covenant or agreement contained in the license.

(10) The license may be modified or terminated, consistent with this subpart, upon mutual agreement of NASA and the licensee.

(11) Nothing relating to the grant of a license, nor the grant itself, shall be construed to confer upon any person any immunity from or defenses under the antitrust laws or from a charge of patent misuse, and the acquisition and use of rights pursuant to this subpart shall not be immunized from the operation of state or Federal law by reason of the source of the grant.

Types of Licenses

§ 1245.205 Nonexclusive licenses.

(a) *Availability of licenses.* Nonexclusive licenses may be granted under NASA inventions without publication of availability or notice of a prospective license.

(b) *Conditions.* In addition to the provisions of § 1245.204, the nonexclusive license may also provide that, after termination of a period specified in the license agreement, NASA may restrict the license to the fields of use or geographic areas, or both, in which the licensee has brought the invention to practical application and continues to make the benefits of the invention reasonably accessible to the public. However, such restriction shall be made only in order to grant an exclusive or partially exclusive license in accordance with this subpart.

§ 1245.206 Exclusive and partially exclusive licenses.

(a) Domestic licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on NASA inventions: (i) 3 months after notice of the invention's availability has been announced in the **Federal Register;** or (ii) without such notice where NASA determines that expeditious granting of such a license will best serve the interests of the Federal Government and the public; and (iii) in either situation, specified in (a)(1)(i) or (ii) of this section only if:

(A) Notice of a prospective license, identifying the invention and the prospective licensee, has been published in the **Federal Register,** providing opportunity for filing written objections within a 60-day period;

(B) After expiration of the period in § 1245.206(a)(1)(iii)(A) and consideration of nay written objections received during the period, NASA has determined that:

(*1*) The interests of the Federal Government and the public will best be served by the proposed license, in view of the applicant's intentions, plans, and ability to bring the invention to practical application or otherwise promote the invention's utilizaiton by the public;

(*2*) The desired practical application has not been achieved, or is not likely expeditiously to be achieved, under any nonexclusive license which has been granted, or which may be granted, on the invention;

(*3*) Exclusive or partially exclusive licensing is a reasonable and necessary incentive to call forth the investment of risk capital and expenditures to bring the invention to practical application or otherwise promote the invention's utilization by the public; and

(*4*) The proposed terms and scope of exclusivity are not greater than reasonably necessary to provide the incentive for bringing the invention to practical application or otherwise promote the invention's utilization by the public;

(C) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the country in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with the antitrust laws; and

(D) NASA has given first preference to any small business firms submitting plans that are determined by the agency to be within the capabilities of the firms and as equally likely, if executed, to bring the invention to practical application as any plans submitted by applicants that are not small business firms.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to domestic exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall reserve to NASA the right to require the licensee to grant sublicenses to responsible applicants, on reasonable terms, when necessary to fulfill health or safety needs.

(iii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iv) The license may grant the licensee the right of enforcement of the licensed patent pursuant to the provisions of Chapter 29 of Title 35, United States Code, or other statutes, as determined appropriate in the public interest.

(b) Foreign licenses.

(1) *Availability of licenses.* Exclusive or partially exclusive licenses may be granted on a NASA invention covered by a foreign patent, patent application, or other form of protection, provided that:

(i) Notice of a prospective license, identifying the invention and prospective licensee, has been published in the **Federal Register,** providing opportunity for filing written objections within a 60-day period and following consideration of such objections;

(ii) NASA has considered whether the interests of the Federal Government or United States industry in foreign commerce will be enhanced; and

(iii) NASA has not determined that the grant of such license will tend substantially to lessen competition or result in undue concentration in any section of the United States in any line of commerce to which the technology to be licensed relates, or to create or maintain other situations inconsistent with antitrust laws.

(2) *Conditions.* In addition to the provisions of § 1245.204, the following terms and conditions apply to foreign exclusive and partially exclusive licenses:

(i) The license shall be subject to the irrevocable, royalty-free right of the Government of the United States to practice and have practiced the invention on behalf of the United States and on behalf of any foreign government or international organization pursuant to any existing or future treaty or agreement with the United States.

(ii) The license shall be subject to any licenses in force at the time of the grant of the exclusive or partially exclusive license.

(iii) The license may grant the licensee the right to take any suitable and necessary actions to protect the licensed property, on behalf of the Federal Government.

(c) *Record of determinations.* NASA shall maintain a record of determinations to grant exclusive or partially exclusive licenses.

Procedures

§ 1245.207 Application for a license.

An application for a license should be addressed to the Patent Counsel at the NASA installation having responsibility for the invention and shall normally include:

(a) Identification of the invention for which the license is desired, including the patent application serial number or patent number, title, and date, if known;

(b) Identification of the type of license for which the application is submitted;

(c) Name and address of the person, company, or organization applying for the license and the citizenship or place of incorporation of the applicant;

(d) Name, address, and telephone number of representative of applicant to whom correspondence should be sent;

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the **Federal Register** in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

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15. Supplementary Notes

Section 2: Indexes

16. Abstract

A subject index is provided for over 5100 patents and patent applications for the period May 1969 through December 1991. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.

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